

# Report to the University Wide Council on Engineering Education UCEE

Henry Samueli School of Engineering and Applied Science  
University of California, Los Angeles

Fall 2004

Henry Samueli School of Engineering and Applied Science  
University of California, Los Angeles

## Admission, Enrollment & Degree Statistics

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## Enrollments – Fall Quarters

		2002	2003	2004
Undergraduate Enrollment				
	Lower Division	731	773	740
	Upper Division	1949	1837	1664
<b>Total Undergraduate</b>		<b>2680</b>	<b>2610</b>	<b>2404</b>
Graduate Enrollment				
	Master's Degree	241	445	574
	Doctoral Degree	1100	1045	817
<b>Total Graduate Enrollment</b>		<b>1341</b>	<b>1490</b>	<b>1391</b>
<b>HSSEAS Total</b>		<b>4021</b>	<b>4100</b>	<b>3795</b>
<b>Campus Total</b>		<b>37599</b>	<b>38598</b>	<b>35966</b>

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## Fall Undergraduate Enrollments by Major

	2002	2003	2004
Aerospace Engr	206	196	199
*Bioengineering	N/A	N/A	41
Chemical Engr	248	246	224
Civil Engr	215	227	242
Computer Sci	356	320	265
Computer Sci & Engr	485	430	370
Electrical Engr	752	725	612
Mechanical Engr	321	358	369
Materials Engr	97	108	82
<b>Total</b>	<b>2680</b>	<b>2610</b>	<b>2404</b>

\*Bioengineering major created in Fall 2004

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## Fall Graduate Enrollment and Support by Major

	2002		2003		2004	
	Enroll	%Supp	Enroll	%Supp	Enroll	%Supp
Aerospace	30	70%	41	70%	43	65%
Biomedical IDP	103	15%	118	71%	146	74%
Chemical	73	94%	80	81%	73	88%
Civil	98	60%	98	51%	96	44%
Computer Science	340	88%	395	58%	345	53%
Electrical	442	74%	454	73%	413	77%
Mechanical	187	*	224	*	203	*
M S& E	66	85%	76	87%	71	82%
Manufacturing	2	*	4	*	1	*
Nuclear	0	*	0	*	0	*
Integrated Mfg Engr	0	*	0	*	0	*
<b>Total</b>	<b>1341</b>		<b>1490</b>		<b>1391</b>	

\* Students in the department of Mechanical and Aerospace Engineering. The information about support is listed under Aerospace Engineering.

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## Undergraduate Admission Statistics

	Freshmen			Transfers		
	Apps	Admits	Enrolled	Apps	Admits	Enrolled
<b>2004-2005</b>						
Aerospace	587	137	47	42	14	7
*Bioengineering	791	164	40	84	0	0
Chemical	374	178	37	94	52	10
Civil	671	119	30	143	39	15
C S & E	1066	239	70	184	58	25
Com Sci	611	138	43	321	44	23
Electrical	728	273	68	276	96	45
Mechanical	892	213	66	143	36	16
Materials	87	47	14	14	7	3
<b>Total</b>	<b>5807</b>	<b>1508</b>	<b>415</b>	<b>1301</b>	<b>346</b>	<b>144</b>

\*new program beginning Fall 2004

<b>2003-2004</b>						
Aerospace	603	146	52	55	17	11
Chemical	390	179	46	77	32	10
Civil	617	146	38	118	30	11
C S & E	1309	263	72	256	66	31
Com Sci	946	142	48	468	66	35
Electrical	905	357	105	347	103	59
Mechanical	866	230	69	149	39	19
Materials	113	77	31	16	5	3
<b>Total</b>	<b>5749</b>	<b>1540</b>	<b>461</b>	<b>1486</b>	<b>358</b>	<b>179</b>

<b>2002-2003</b>						
Aerospace	571	137	48	44	12	6
Chemical	324	136	44	85	32	13
Civil	543	145	60	98	29	14
C S & E	1705	287	80	378	93	55
Com Sci	1207	152	37	723	98	59
Electrical	935	258	72	338	98	58
Mechanical	820	215	55	146	43	21
Materials	61	63	26	18	7	1
<b>Total</b>	<b>6166</b>	<b>1393</b>	<b>422</b>	<b>1830</b>	<b>412</b>	<b>227</b>

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## Graduate Admission Statistics

	Applicants		Admissions		Enrollments	
	Domestic	Foreign	Domestic	Foreign	Domestic	Foreign
<b>2004-2005</b>						
Aerospace	36	39	29	8	13	2
Biomedical	183	104	83	9	40	8
Chemical	76	127	42	6	15	3
Civil	82	112	67	48	28	14
Comp Sci	300	442	143	30	49	9
Electrical	379	822	172	123	67	44
Mechanical	133	198	98	19	37	11
M S & E	22	73	18	30	5	6
Manufacturing	1	0	0	0	0	0
Nuclear	0	0	0	0	0	0
Int Mfg Engr	n/a	n/a	n/a	n/a	n/a	n/a
Engineering	n/a	n/a	n/a	n/a	n/a	n/a
<b>Total</b>	<b>1212</b>	<b>1917</b>	<b>652</b>	<b>273</b>	<b>254</b>	<b>97</b>
%Foreign		61.3%		29.5%		27.6%

	Applicants		Admissions		Enrollments	
	Domestic	Foreign	Domestic	Foreign	Domestic	Foreign
<b>2003-2004</b>						
Aerospace	53	52	41	14	16	2
Biomedical	136	116	62	16	31	5
Chemical	67	153	35	4	14	1
Civil	82	180	58	87	15	15
Comp Sci	335	543	224	64	94	27
Electrical	425	1003	188	126	88	42
Mechanical	147	284	125	57	54	28
M S & E	31	97	23	59	9	14
Manufacturing	2	5	1	2	2	1
Nuclear	0	0	0	0	0	0
Int Mfg Engr	N/A	N/A	N/A	N/A	N/A	N/A
Engineering	N/A	N/A	N/A	N/A	N/A	N/A
<b>Total</b>	<b>1278</b>	<b>2433</b>	<b>757</b>	<b>429</b>	<b>323</b>	<b>135</b>
%Foreign		65.6%		36.2%		29.5%

	Applicants		Admissions		Enrollments	
	Domestic	Foreign	Domestic	Foreign	Domestic	Foreign
<b>2002-2003</b>						
Aerospace	37	51	20	11	5	1
Biomedical	100	106	64	8	24	1
Chemical	53	149	27	14	16	6
Civil	77	192	56	117	21	17
Comp Sci	283	643	199	58	88	12
Electrical	411	1812	168	176	71	60
Mechanical	109	377	74	80	34	35
M S & E	33	121	23	52	8	14
Manufacturing	4	5	2	3	0	0
Nuclear	0	0	0	0	0	0
Int Mfg Engr	N/A	N/A	N/A	N/A	N/A	N/A
Engineering	N/A	N/A	N/A	N/A	N/A	N/A
<b>Total</b>	<b>1107</b>	<b>3456</b>	<b>633</b>	<b>519</b>	<b>267</b>	<b>146</b>
%Foreign		75.7%		45%		35.4%



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## Undergraduate- Foreign, Minorities, Women

	Total Enrolled	Women Number	Percent	Minorities Number	Percent	Foreign Number	Percent
2004	2404	471	19.6%	198	8.2%	149	6.2%
2003	2610	543	20.8%	209	8.0%	143	5.5%
2002	2680	604	22.5%	198	7.3%	n/a	n/a

## Gender Breakdown by Major

B.S. Major	Female	Male
Aerospace Engineering	40	159
Bioengineering	9	32
Chemical Engineering	77	147
Civil Engineering	75	167
Computer Science	52	213
Computer Science & Engr	55	315
Electrical Engineering	90	522
Materials Engineering	16	66
Mechanical Engineering	57	312
TOTAL	471	1933

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## Graduate- Foreign, Women, Minorities

	Total Enrolled	Women		Minorities		Foreign	
		Number	Percent	Number	Percent	Number	Percent
2004	1391	269	19.3%	57	4.1%	537	38.6%
2003	1490	273	18.3%	54	3.6%	617	41.4%
2002	1341	237	17.7%	45	3.4%	613	45.7%

## Gender Breakdown by Major

Master's	Female	Male
Aerospace Engineering	4	21
Biomedical Engineering	20	29
Chemical Engineering	0	7
Civil and Environmental Engr.	11	33
Computer Science	17	117
Electrical	30	146
Materials Science Engineering	7	14
Manufacturing	0	1
Mechanical Engineering	22	95

Ph.D.	Female	Male
Aerospace Engineering	3	15
Biomedical Engineering	36	61
Chemical Engineering	26	40
Civil and Environmental Engr.	10	42
Computer Science	31	180
Electrical	33	204
Materials Science Engineering	9	41
Manufacturing	0	0
Mechanical Engineering	10	76

TOTAL	269	1122
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## M.S. & Ph.D. Graduate – Foreign & Domestic

	Total		Domestic		Foreign	
	MS	PhD	MS	PhD	MS	PhD
2004	574	817	463	391	111	426
2003	445	1045	356	517	89	528
2002	241	1100	206	522	35	578

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## Undergraduate- Degrees Awarded by Major

	2001-2002	2002-2003	2003-2004
B.S.			
Aerospace	17	41	37
Chemical	46	53	65
Civil	43	40	39
Computer Science	82	111	120
Com Sci & Engr	100	125	122
Electrical	158	180	206
Materials	7	13	23
Mechanical	64	62	66
Total	517	625	678

## Graduate- Degrees Awarded by Major

	2001-2002	2002-2003	2003-2004
M.S.			
(breakdown)			
Aerospace		6	6
Biomedical		31	21
Chemical Eng		6	6
Civil Engineering		35	33
Computer Science		78	89
Electrical		104	105
Manufacturing		2	1
Materials Science		11	12
Mechanical		19	44
	240	292	317
Ph.D.			
(breakdown)			
Aerospace		4	4
Biomedical		1	5
Chemical Eng		5	4
Civil Engineering		7	6
Computer Science		18	28
Electrical		29	44
Manufacturing		0	0
Materials Science		6	5
Mechanical		14	22
Nuclear		1	0
TOTAL	92	85	118
M.E.	0	0	0
Engineer Degree	1	5	6

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## Faculty FTE by Departments

	2002-03	2003-04	2004-05
Budgeted Faculty	191.82	197.7	202.52
*Bioengineering	N/A	4.00	5.00
Chemical	12.00	12.00	12.00
Civil	14.00	14.00	13.00
Com Sci	29.00	32.00	35.00
Electrical	43.83	43.33	42.33
MAE	32.00	30.00	30.00
Materials	9.00	10.00	11.00
Biomedical IDP	0	0	0
Total	140.83	145.33	148.33
	filled	filled	filled
	roster	roster	roster
	FTE	FTE	FTE

\*Bioengineering Department created in 2002

Note: the difference between budgeted FTE and filled roster FTE is used for Teaching Assistants and temporary faculty

updated 4/8/2005  
correction made 3/21/06