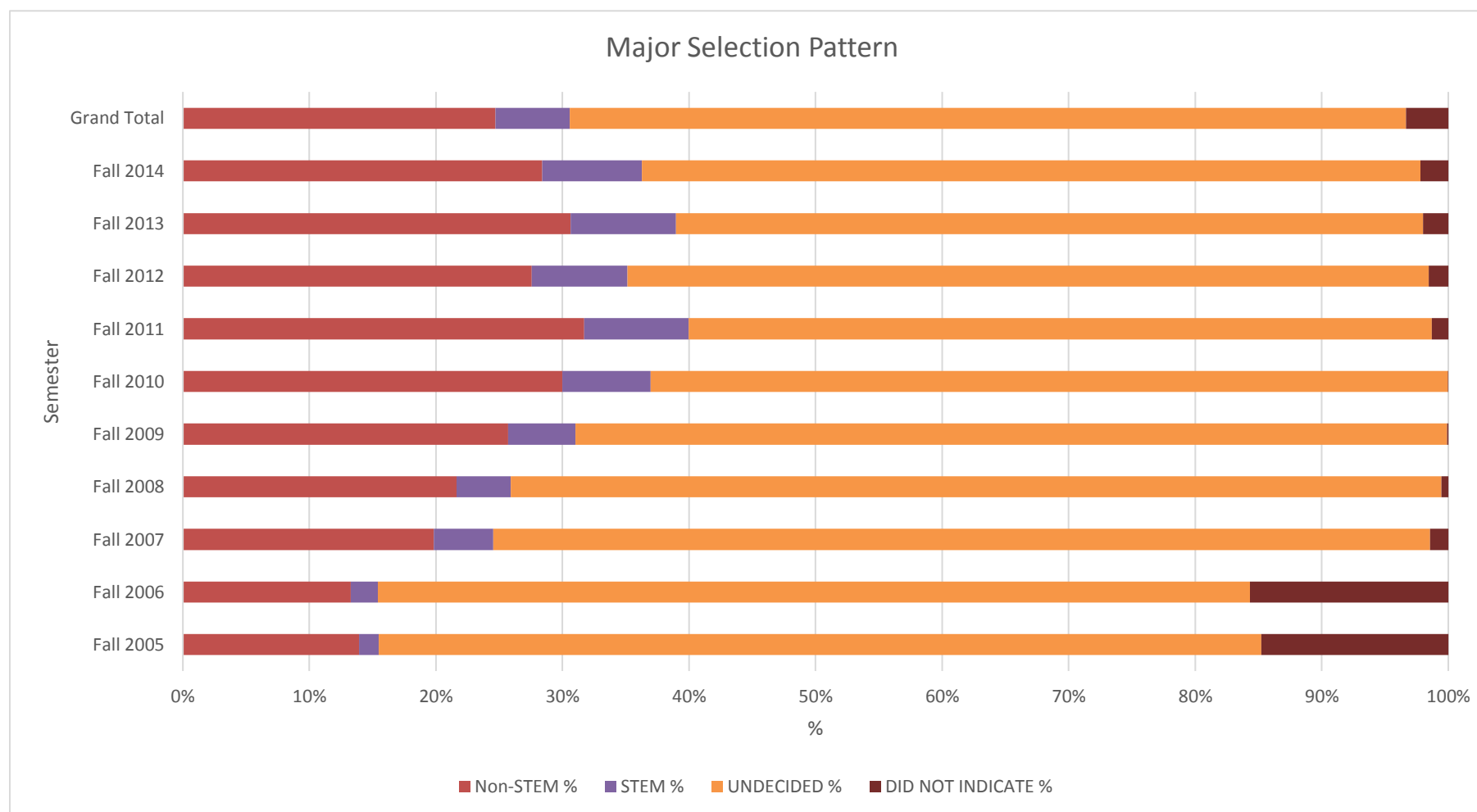


First Time LAVC Students Major Selection Pattern										
Semester	Non-STEM		STEM		Undecided		Decline -to-state		Total Count	
	Count	%	Count	%	Count	%	Count	%	Count	%
Fall 2005	358	13.92%	40	1.56%	1794	69.75%	380	14.77%	2572	100.00%
Fall 2006	309	13.26%	50	2.15%	1607	68.94%	365	15.66%	2331	100.00%
Fall 2007	641	19.81%	153	4.73%	2394	74.00%	47	1.45%	3235	100.00%
Fall 2008	774	21.61%	154	4.30%	2633	73.53%	20	0.56%	3581	100.00%
Fall 2009	911	25.71%	189	5.33%	2441	68.88%	3	0.08%	3544	100.00%
Fall 2010	1024	29.99%	238	6.97%	2152	63.02%	1	0.03%	3415	100.00%
Fall 2011	846	31.71%	220	8.25%	1567	58.73%	35	1.31%	2668	100.00%
Fall 2012	938	27.57%	257	7.55%	2154	63.32%	53	1.56%	3402	100.00%
Fall 2013	1039	30.63%	283	8.34%	2002	59.02%	68	2.00%	3392	100.00%
Fall 2014	878	28.39%	244	7.89%	1903	61.53%	68	2.20%	3093	100.00%
Grand Total	7718	24.71%	1828	5.85%	20647	66.11%	1040	3.33%	31233	100.00%

Though showing a declining trend, nearly 69% of students did not indicate or decide their majors when they first enroll to the College.

Percent of students who major in STEM programs increase from 1.56% in Fall 2005 to 7.89% in Fall 2014. Students in Non-STEM programs grow from 13.29% to 28.39% during the same period. This suggests that first-time college students are going at higher rate to Non-STEM than STEM programs.

The relative increase in the number of students majoring in STEM programs is driven not by a shift from "Non-STEM" to "STEM" programs, but due to the decline in the "decline -to-state" and "Undecided" categories.



\* based on First Time College Students (110 STUD\_SEMC)

Major Selection Pattern by Ethnic Group										
Semester	Non-STEM		STEM		UNDECIDED		DID NOT INDICATE		Total Count	
	Count	%	Count	%	Count	%	Count	%	Count	%
Asian	722	26.73%	251	9.29%	1603	59.35%	125	4.63%	2701	100.00%
African-American	622	29.33%	83	3.91%	1339	63.13%	77	3.63%	2121	100.00%
White	2008	22.83%	581	6.61%	5927	67.39%	279	3.17%	8795	100.00%
Hispanic	3102	24.18%	672	5.24%	8621	67.20%	433	3.38%	12828	100.00%
Multiple Ethnicities	734	30.76%	134	5.62%	1471	61.65%	47	1.97%	2386	100.00%
<b>Grand Total</b>	<b>7188</b>	<b>24.93%</b>	<b>1721</b>	<b>5.97%</b>	<b>18961</b>	<b>65.77%</b>	<b>961</b>	<b>3.33%</b>	<b>28831</b>	<b>100.00%</b>

On the average, 5.97% of first-time LAVC students major in STEM programs. Asians (9.29%) and Whites (6.61%) major STEM programs at a higher rate compared to the other ethnic groups. African-Americans (3.91%) and Hispanics (5.24%) have the lowest rate.

**Major Selection Pattern by Gender Group**

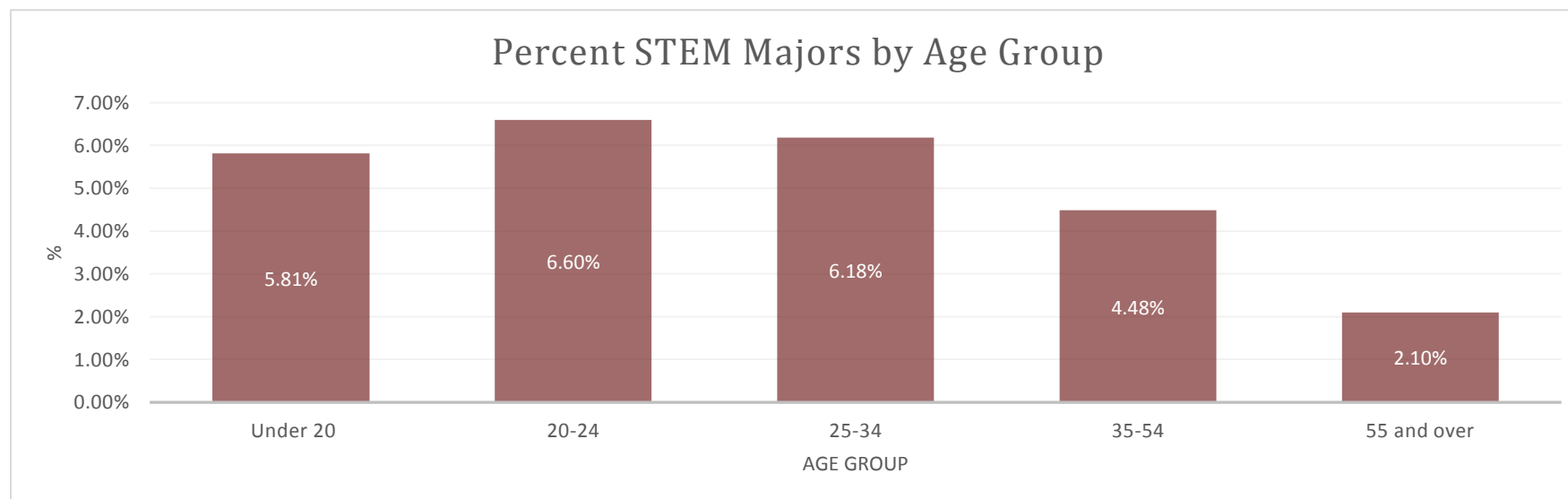
Gender Group	Non-STEM		STEM		UNDECIDED		DID NOT INDICATE		Total	
	Count	%	Count	%	Count	%	Count	%	Count	%
Female	4383	27.01%	561	3.46%	10631	65.51%	653	4.02%	16228	100.00%
Male	3335	22.23%	1267	8.44%	10016	66.75%	387	2.58%	15005	100.00%
<b>Grand Total</b>	<b>7718</b>	<b>24.71%</b>	<b>1828</b>	<b>5.85%</b>	<b>20647</b>	<b>66.11%</b>	<b>1040</b>	<b>3.33%</b>	<b>31233</b>	<b>100.00%</b>

Male first-time LAVC students major STEM programs at a higher rate (8.44%) than Female students (3.46%). The gender gap in STEM major selection seems to get widening from year to year.

**Students Major Selection Pattern by Age Group**

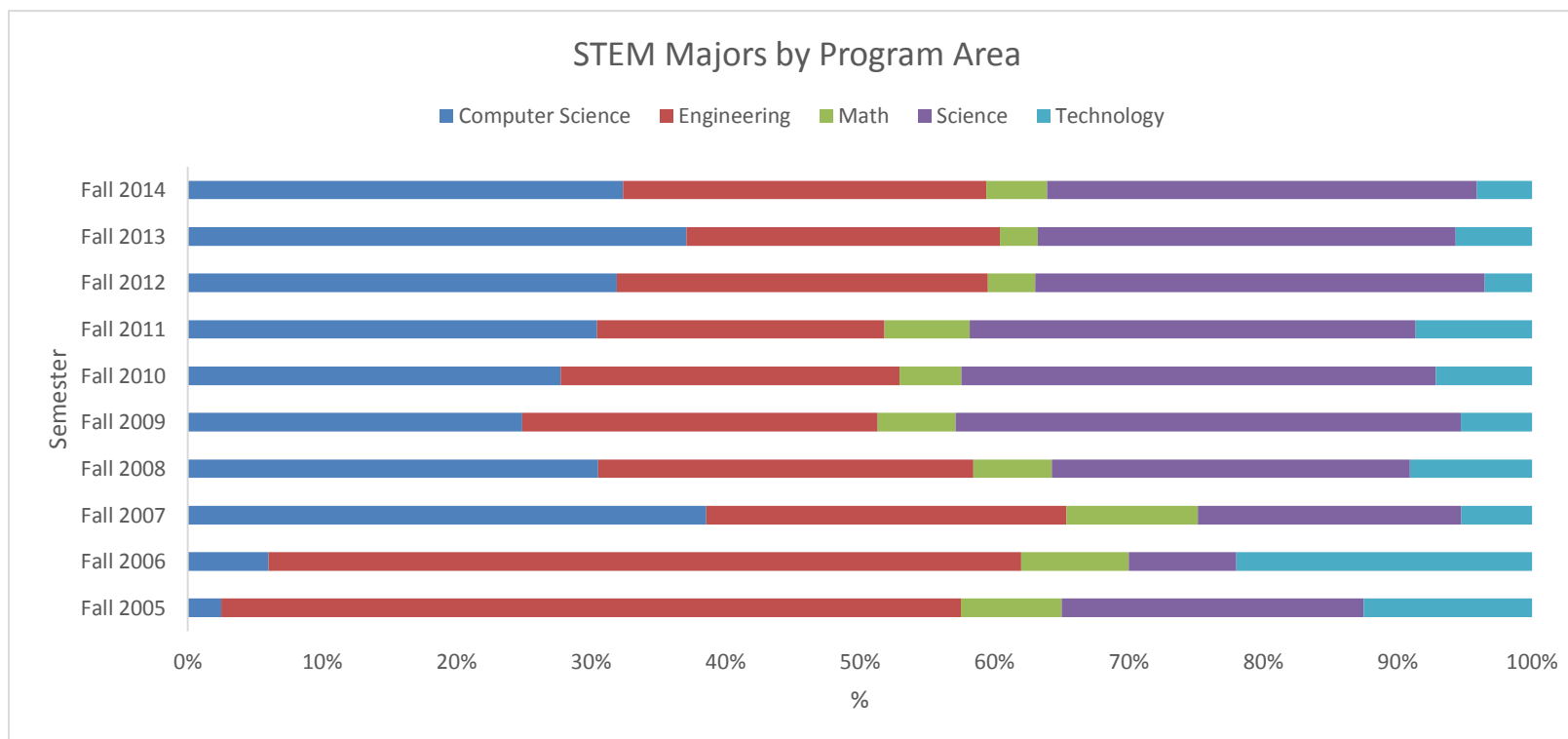
Age Group	Non-STEM		STEM		UNDECIDED		DID NOT INDICATE		Total	
	Count	%	Count	%	Count	%	Count	%	Count	%
20-24	2094	28.14%	491	6.60%	4649	62.47%	208	2.79%	7442	100.00%
25-34	1558	30.77%	313	6.18%	3041	60.06%	151	2.98%	5063	100.00%
35-54	740	23.70%	140	4.48%	2121	67.94%	121	3.88%	3122	100.00%
55 and over	93	15.05%	13	2.10%	487	78.80%	25	4.05%	618	100.00%
Under 20	3233	21.57%	871	5.81%	10349	69.05%	535	3.57%	14988	100.00%
<b>Grand Total</b>	<b>7718</b>	<b>24.71%</b>	<b>1828</b>	<b>5.85%</b>	<b>20647</b>	<b>66.11%</b>	<b>1040</b>	<b>3.33%</b>	<b>31233</b>	<b>100.00%</b>

The younger the Age group, the higher the percentage of students who major in STEM programs (exception: Under 20 Age Group who are mostly high school concurrent students)



**STEM Majors by Program Area**

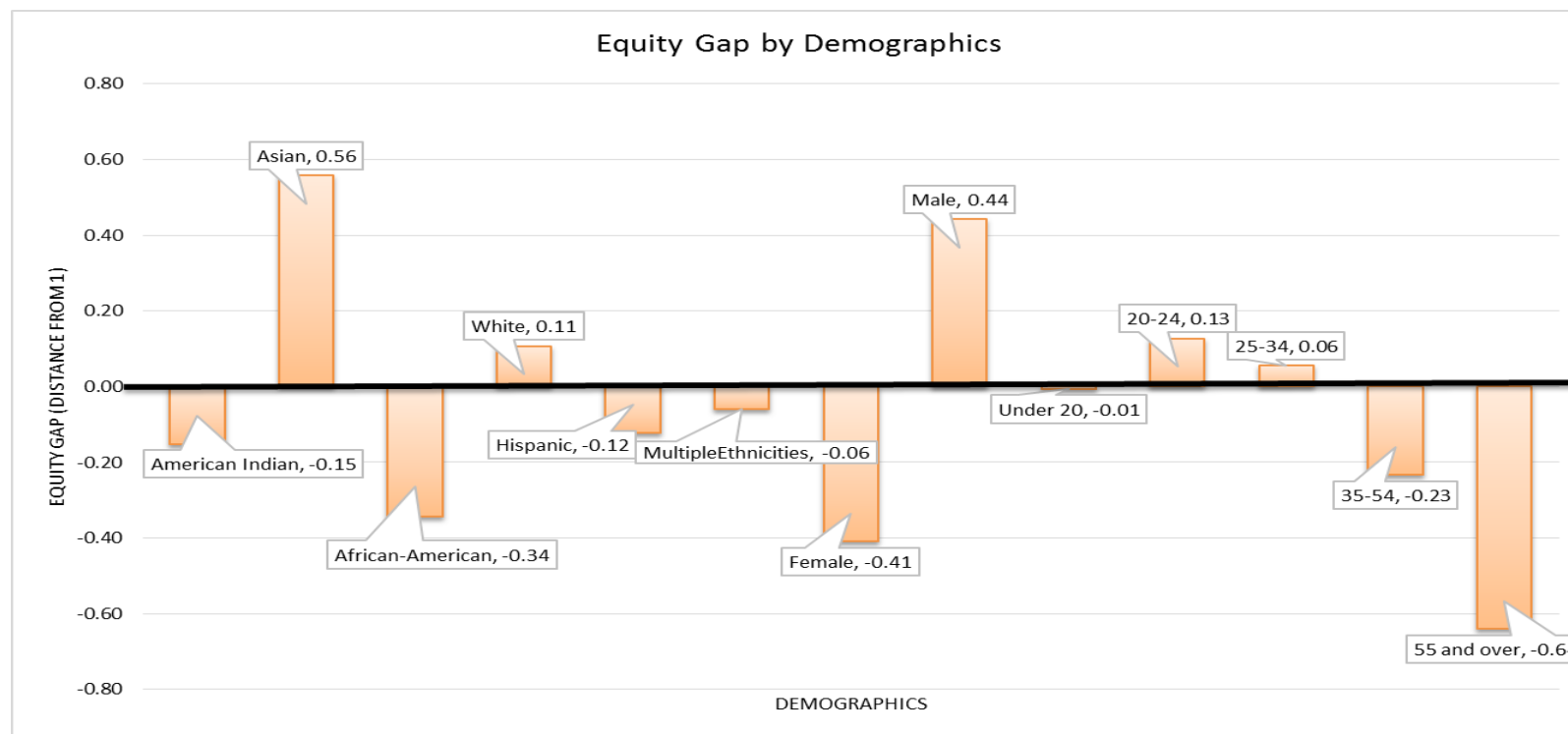
Semester		Computer Science	Engineering	Math	Science	Technology	Grand Total
Fall 2005	Count	1	22	3	9	5	40
	%	2.50%	55.00%	7.50%	22.50%	12.50%	100.00%
Fall 2006	Count	3	28	4	4	11	50
	%	6.00%	56.00%	8.00%	8.00%	22.00%	100.00%
Fall 2007	Count	59	41	15	30	8	153
	%	38.56%	26.80%	9.80%	19.61%	5.23%	100.00%
Fall 2008	Count	47	43	9	41	14	154
	%	30.52%	27.92%	5.84%	26.62%	9.09%	100.00%
Fall 2009	Count	47	50	11	71	10	189
	%	24.87%	26.46%	5.82%	37.57%	5.29%	100.00%
Fall 2010	Count	66	60	11	84	17	238
	%	27.73%	25.21%	4.62%	35.29%	7.14%	100.00%
Fall 2011	Count	67	47	14	73	19	220
	%	30.45%	21.36%	6.36%	33.18%	8.64%	100.00%
Fall 2012	Count	82	71	9	86	9	257
	%	31.91%	27.63%	3.50%	33.46%	3.50%	100.00%
Fall 2013	Count	105	66	8	88	16	283
	%	37.10%	23.32%	2.83%	31.10%	5.65%	100.00%
Fall 2014	Count	79	66	11	78	10	244
	%	32.38%	27.05%	4.51%	31.97%	4.10%	100.00%
All Fall Semsters	Total Count	556	494	95	564	119	1828
	Total %	30.42%	27.02%	5.20%	30.85%	6.51%	100.00%



Percent of STEM majors in Math, Technology, and Engineering is declining while the percent of students majoring Computer Science and Science programs is increasing.

Fall First Time LAVC Students (2005 -2014) Representation in STEM Programs					
Group	All First Time		First Time STEM		Proportionality Index
	Count	%	Count	%	
American Indian	79	0.27%	4	0.23%	0.85
Asian	2701	9.34%	251	14.55%	1.56
African-American	2121	7.34%	83	4.81%	0.66
White	8795	30.42%	581	33.68%	1.11
Hispanic	12828	44.37%	672	38.96%	0.88
MultipleEthnicities	2386	8.25%	134	7.77%	0.94
Female	16228	51.96%	561	30.69%	0.59
Male	15005	48.04%	1267	69.31%	1.44
Under 20	14988	47.99%	871	47.65%	0.99
20-24	7442	23.83%	491	26.86%	1.13
25-34	5063	16.21%	313	17.12%	1.06
35-54	3122	10.00%	140	7.66%	0.77
55 and over	618	1.98%	13	0.71%	0.36

Asians followed by Whites have relatively higher STEM representation. African Americans, and Hispanics (the group which accounts for 44.5% of the student population) are under represented. Though females account for 52% of the student population, only 31% of STEM majors are Females.



First Time LAVC Students Major Selection Pattern

Fall First Time LAVC STEM Students by Field of Study																						
STEM Field of Study	Count														%					Total Count	Total %	
	Fall 2005	Fall 2006	Fall 2007	Fall 2008	Fall 2009	Fall 2010	Fall 2011	Fall 2012	Fall 2013	Fall 2014	Fall 2005	Fall 2006	Fall 2007	Fall 2008	Fall 2009	Fall 2010	Fall 2011	Fall 2012	Fall 2013			Fall 2014
Biology			12	20	26	38	35	36	46	40	0.0%	0.0%	7.8%	13.0%	13.8%	16.0%	15.9%	14.0%	16.3%	16.4%	253	13.84%
Biological Sciences - Transfer			13	11	27	36	27	30	27	25	0.0%	0.0%	8.5%	7.1%	14.3%	15.1%	12.3%	11.7%	9.5%	10.2%	196	10.72%
Engineering	6	8	14	14	22	30	21	31	21	19	15.0%	16.0%	9.2%	9.1%	11.6%	12.6%	9.5%	12.1%	7.4%	7.8%	186	10.18%
C/C++			16	10	10	18	19	26	37	26	0.0%	0.0%	10.5%	6.5%	5.3%	7.6%	8.6%	10.1%	13.1%	10.7%	162	8.86%
Computer Science			16	10	10	18	19	26	37	26	0.0%	0.0%	10.5%	6.5%	5.3%	7.6%	8.6%	10.1%	13.1%	10.7%	162	8.86%
Architecture - Transfer	9	10	6	12	7	6	7	14	7	8	22.5%	20.0%	3.9%	7.8%	3.7%	2.5%	3.2%	5.4%	2.5%	3.3%	86	4.70%
Computer & Information Sciences - Transfer			13	11	9	10	7	8	8	12	0.0%	0.0%	8.5%	7.1%	4.8%	4.2%	3.2%	3.1%	2.8%	4.9%	78	4.27%
Computer Science Programming			8	5	6	7	9	16	18	9	0.0%	0.0%	5.2%	3.2%	3.2%	2.9%	4.1%	6.2%	6.4%	3.7%	78	4.27%
Chemistry	4	4	5	7	13	5	7	10	10	11	10.0%	8.0%	3.3%	4.5%	6.9%	2.1%	3.2%	3.9%	3.5%	4.5%	76	4.16%
Mathematics	3	4	12	8	8	10	9	7	4	8	7.5%	8.0%	7.8%	5.2%	4.2%	4.2%	4.1%	2.7%	1.4%	3.3%	73	3.99%
Architecture	4	5	8	7	3	6	7	5	5	8	10.0%	10.0%	5.2%	4.5%	1.6%	2.5%	3.2%	1.9%	1.8%	3.3%	58	3.17%
Engineering & Related Industrial Technology - Transfer			6	3	8	5	2	5	12	7	0.0%	0.0%	3.9%	1.9%	4.2%	2.1%	0.9%	1.9%	4.2%	2.9%	48	2.63%
Engineering Technology: Mechanical Engineering	2	2	2	4	2	1	5	13	6	10	5.0%	4.0%	1.3%	2.6%	1.1%	0.4%	2.3%	5.1%	2.1%	4.1%	47	2.57%
Computer Graphics/Design	1	3	3	5	4	8	4	4	5	2	2.5%	6.0%	2.0%	3.2%	2.1%	3.4%	1.8%	1.6%	1.8%	0.8%	39	2.13%
Mechanical Engineering Technology	1	3	2	3	5	2	2	9	9	9	2.5%	6.0%	1.3%	1.3%	1.6%	2.1%	0.9%	0.8%	3.2%	3.7%	38	2.08%
Electronics: Biomedical Equipment Technology			2	4	5	9	8	1	4	2	0.0%	0.0%	1.3%	2.6%	2.6%	3.8%	3.6%	0.4%	1.4%	0.8%	35	1.91%
A+ Certification Preparation			3	6	8	5	9			4	0.0%	0.0%	2.0%	3.9%	4.2%	2.1%	4.1%	0.0%	0.0%	1.6%	35	1.91%
Electronics	4	5	1	3	1	4	3	4	3		10.0%	10.0%	0.7%	1.9%	0.5%	1.7%	1.4%	1.6%	1.1%	0.0%	28	1.53%
Mathematics - Transfer			3	1	3	1	5	2	4	3	0.0%	0.0%	2.0%	0.6%	0.4%	2.3%	0.8%	1.4%	1.2%	2.2%	22	1.20%
Electronics Technician	1	2	1	4	4		2	1	4	3	2.5%	4.0%	0.7%	2.6%	2.1%	0.0%	0.9%	0.4%	1.4%	1.2%	22	1.20%
Physics	3			2	5	1	2	4	4		7.5%	0.0%	0.0%	1.3%	2.6%	0.4%	0.9%	1.6%	1.4%	0.0%	21	1.15%
Manufacturing Technology - Numerical Control		1	3	1			2	2	3	4	0.0%	2.0%	2.0%	0.6%	0.0%	0.0%	0.9%	0.8%	1.1%	1.6%	16	0.88%
Engineering Technology: Industrial/Manufacturing			1		1	2	2	1	4	3	0.0%	0.0%	0.7%	0.0%	0.5%	0.8%	0.9%	0.4%	1.4%	1.2%	14	0.77%
Geology	2			1		2	1	3		1	5.0%	0.0%	0.0%	0.6%	0.0%	0.8%	0.5%	1.2%	0.0%	0.4%	10	0.55%
Construction Management			1	1	3	3				1	0.0%	0.0%	0.7%	0.6%	1.6%	1.3%	0.0%	0.0%	0.0%	0.4%	9	0.49%
Mechanical Drafting/Design			1		1	2	1		2	1	0.0%	0.0%	0.7%	0.0%	0.5%	0.8%	0.5%	0.0%	0.7%	0.4%	8	0.44%
Manufacturing Technology - Metal Machining		3	1			1	1	1		1	0.0%	6.0%	0.7%	0.0%	0.0%	0.4%	0.5%	0.4%	0.0%	0.4%	8	0.44%
Earth Science (Plan A)						2	1	2	1		0.0%	0.0%	0.0%	0.0%	0.0%	0.8%	0.5%	0.8%	0.4%	0.0%	6	0.33%
Electronics: Industrial				1		1	2				0.0%	0.0%	0.0%	0.6%	0.0%	0.4%	0.9%	0.0%	0.0%	0.0%	4	0.22%
Electronics Technology						1	1		2		0.0%	0.0%	0.0%	0.0%	0.0%	0.4%	0.5%	0.0%	0.7%	0.0%	4	0.22%
Earth Science (Plan B)								1		1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.4%	0.0%	0.4%	2	0.11%
Electronics: Consumer/Computer Servicing				1		1					0.0%	0.0%	0.0%	0.6%	0.0%	0.4%	0.0%	0.0%	0.0%	0.0%	2	0.11%
Microcomputer Applications Management Specialist								1			0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.4%	0.0%	0.0%	1	0.05%
Interdepartmental Microcomputer Systems								1			0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.4%	0.0%	0.0%	0.0%	1	0.05%
Grand Total	40	50	153	154	189	238	220	257	283	244	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	1828	100.00%