

**Achieving the Dream Data & Assessment Team**  
**Meeting Agenda**  
**November 30, 2009, 1 - 2:30pm**  
**President's Dining Room (PDR)**

1. AtD / JBL file submission status = due November 15<sup>th</sup>
2. HEIRS Fall 2009 file(s) submission - newly added assessment data
3. AY 2008-09 Withdrawal Report
4. Learning Communities Report - reworked for grades A-D vs. A-C
5. Retention Report updated
6. Proficiencies vs. Prerequisites - discussion / update
  - a. Pilot focus: First-time freshmen in BIO, CHM, ERS, SCI, & HIS 101
7. AtD strategy Team evaluation plans - Advising & College-level Math
8. Next Project - Economic status and college success (is there an impact?)  
- FISA, Pell data + family size compared to withdrawal rates and course completion
9. Spring 2009 College-level Math tutoring report
10. Team project updates

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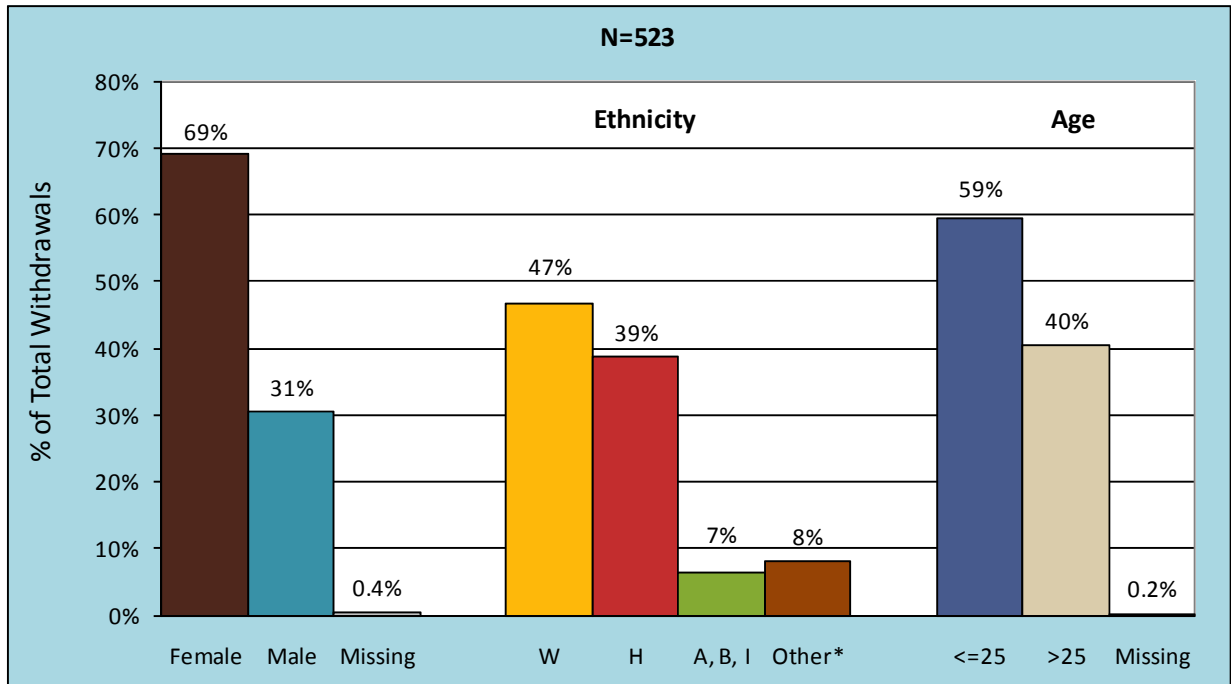
*Next meeting: December 10, 2009, 1-2pm*  
*President's Conference Room - Library*

# Northern Essex Community College

## AY 2008-2009 Withdrawal Report

During AY 2008-2009 there were **527** withdrawals reported from **523** students at Northern Essex Community College. There were 316 withdrawals reported in Fall 2008, 152 withdrawals reported in Spring 2009 and 59 withdrawals reported in Summer 2009.

### Demographics



\*Includes Other, Unknown and Missing Ethnicity.

### Reasons for Withdrawal

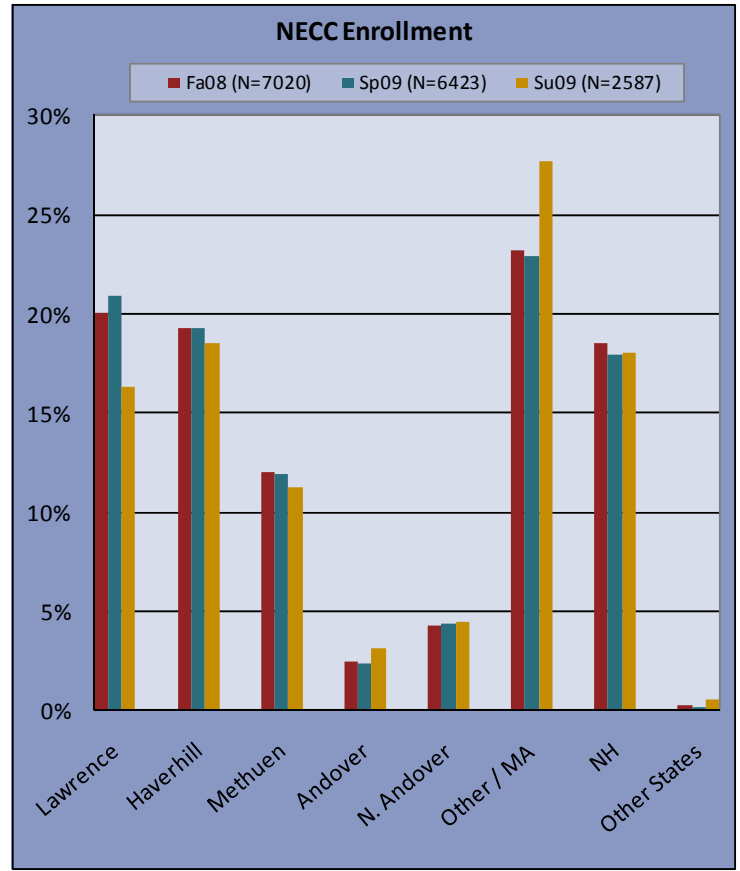
**99%** (523) of student withdrawal forms included **569** reasons for withdrawal.

Of those reasons:

Personal/Family	34%
Transferring	13%
Conflict with Work	12%
Financial	12%
Illness	9%
Other	9%
Moving	7%
Academic Difficulty	3%
Quality of Courses	2%

## City of Residence

36% (188) of students who withdrew during AY 2008-2009 resided in Lawrence.



## Degree / Certificate Program

81% (424) of student withdrawal forms reported the Degree or Certificate program they were enrolled in at the time of withdrawal.

Nursing	16%
Business	13%
Medical	11%
Liberal Arts	11%
ESL	10%
General Studies	9%
Criminal Justice	8%
Unclassified	6%
Education	5%
Arts	3%
Other	3%
CIS	2%
Human Services	2%
Paralegal	1%

## Course Enrollment

A total of 1,378 courses were reportedly dropped during AY 2008-2009 in the following subject areas:

Biology	10%
Math	10%
Reading	9%
English	9%
English as a Second Language	8%
Psychology	6%
Computer Information Systems	5%
Writing	4%
Criminal Justice	3%
History	3%
Art	2%
Sociology	2%
Accounting	2%
Business	2%
Literature	2%
Graphic Design	2%
Health Services	1%
Early Childhood Education	1%
Communications	1%
Spanish	1%
Human Services	1%
Dental Assisting	1%
Government	1%
Philosophy	1%
Economics	1%
Geography	1%
Science	1%
Emergency Medical Technician	0.5%
Paralegal Studies	0.5%
Anthropology	0.4%
Chemistry	0.4%
College Success Seminar	0.4%
Deaf Hard of Hearing	0.4%
Marketing	0.4%
Music	0.4%
American Sign Language	0.4%
Deaf Studies	0.4%
Education	0.4%
Earth Science	0.4%
French	0.4%

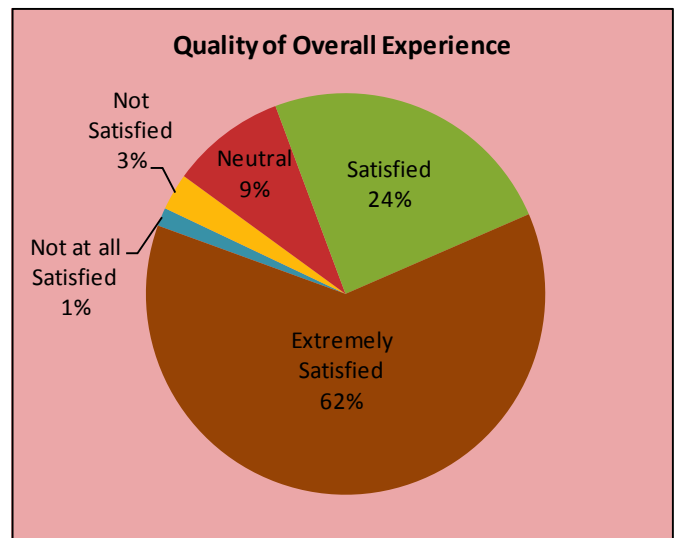
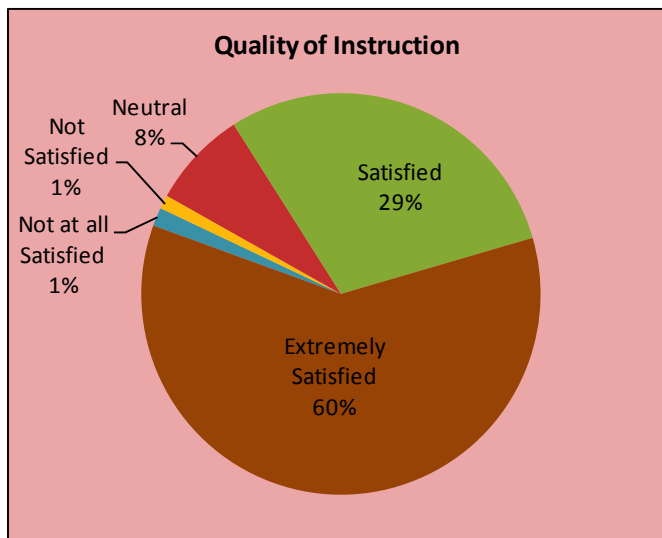
Physical Education	0.4%
Practical Nursing	0.4%
All Other	3%

### Financial Aid

34% (181) of withdrawn students reported receiving Financial Aid.

### Satisfaction

When students withdraw, they are asked to rate their satisfaction with both the quality of instruction and the quality of the overall experience they had with NECC. 51% (268) of withdrawal forms reported student levels of satisfaction with the quality of instruction, while 51% (269) of withdrawal forms reported the level of satisfaction with the quality of the overall experience received.



## Fall 2007 Learning Community Course Study

Learning Community Courses (Section Code HL*)	# Enrolled	<u>Grades A - C</u>		<u>Grades A - D</u>	
		# Complete	% Complete	# Complete	% Complete
CIS 110	20	15	75%	16	80%
ENG 101V	20	15	75%	16	80%
ENG 101D	21	11	52%	14	67%
MAT 022	21	11	52%	14	67%
HIS 101	15	5	33%	9	60%
LIT 201	15	5	33%	9	60%
HIS 121	26	17	65%	21	81%
LIT 271	26	17	65%	21	81%
PSY 101	29	16	55%	18	62%
REA 021	29	13	45%	19	66%
REA 011	20	12	60%	16	80%
WRT 010	20	13	65%	15	75%
<b>Total</b>	<b>262</b>	<b>150</b>	<b>57%</b>	<b>188</b>	<b>72%</b>
<b>Gender</b>					
Female	138	85	62%	101	73%
Male	124	65	52%	87	70%
<b>Ethnicity</b>					
Majority (White non-Hispanic)	194	104	54%	136	70%
Hispanic	36	26	72%	28	78%
Minority (Asian, Black non-Hispanic, American Indian)	16	10	63%	12	75%
Other (Missing, Unknown, NRA)	16	10	63%	12	75%
<b>Age</b>					
<=25	242	132	55%	170	70%
>25	20	18	90%	18	90%

\* The grades C-, D and D+ account for 7% of the overall grade distribution for the term.

## Spring 2008 Learning Community Course Study

Learning Community Courses (Section Code HL*)	# Enrolled	<u>Grades A - C</u>		<u>Grades A - D</u>	
		# Complete	% Complete	# Complete	% Complete
CIS 110	17	10	59%	10	59%
ENG 101V	17	10	59%	10	59%
ENG 101R	19	13	68%	16	84%
REA 021	19	13	68%	17	89%
HIS 122	28	16	57%	24	86%
LIT 272	28	16	57%	24	86%
<b>Total</b>	<b>128</b>	<b>78</b>	<b>61%</b>	<b>101</b>	<b>79%</b>
<b>Gender</b>					
Female	68	46	68%	56	82%
Male	60	32	53%	45	75%
<b>Ethnicity</b>					
Majority (White non-Hispanic)	82	49	60%	62	76%
Hispanic	32	22	69%	27	84%
Minority (Asian, Black non-Hispanic, American Indian)	10	4	40%	8	80%
Other (Missing, Unknown, NRA)	4	3	75%	4	100%
<b>Age</b>					
<=25	108	62	57%	85	79%
>25	20	16	80%	16	80%

\* The grades C-, D and D+ account for 7% of the overall grade distribution for the term.

## Fall 2008 Learning Community Course Study

Learning Community Courses (Section Code HL*)	# Enrolled	<u>Grades A - C</u>		<u>Grades A - D</u>	
		# Complete	% Complete	# Complete	% Complete
CIS 110	19	14	74%	15	79%
ESL 044	20	13	65%	17	85%
REA 011	23	14	61%	15	65%
WRT 010	23	15	65%	16	70%
REA 021	21	16	76%	18	86%
ENG 101R	22	18	82%	19	86%
HIS 121W	30	15	50%	20	67%
LIT 271W	30	15	50%	20	67%
ENG 101	21	11	52%	14	67%
MAT 022	21	6	29%	10	48%
<b>Total</b>	<b>230</b>	<b>137</b>	<b>60%</b>	<b>164</b>	<b>71%</b>
<b>Gender</b>					
Female	133	88	66%	101	76%
Male	97	49	51%	63	65%
<b>Ethnicity</b>					
Majority (White non-Hispanic)	136	73	54%	90	66%
Hispanic	56	37	66%	43	77%
Minority (Asian, Black non-Hispanic, American Indian)	16	10	63%	13	81%
Other (Missing, Unknown, NRA)	22	17	77%	18	82%
<b>Age</b>					
<=25	205	126	61%	147	72%
>25	25	11	44%	17	68%

\* The grades C-, D and D+ account for 7% of the overall grade distribution for the term.



## Spring 2009 Learning Community Course Study

Learning Community Courses (Section Code HL*)	# Enrolled	<u>Grades A - C</u>		<u>Grades A - D</u>	
		# Complete	% Complete	# Complete	% Complete
ART 130	20	12	60%	12	60%
ENG 101	20	12	60%	14	70%
BIO 101	28	15	54%	21	75%
PSY 101	28	22	79%	24	86%
BIO 215	19	13	68%	13	68%
MAT 120	19	12	63%	13	68%
CIS 110	20	13	65%	15	75%
ENG 101	20	13	65%	15	75%
CRJ 101	9	5	56%	5	56%
REA 021	9	5	56%	5	56%
ENG 101	20	15	75%	19	95%
REA 021	20	14	70%	19	95%
ENG 102	14	6	43%	8	57%
SOC 104	14	6	43%	9	64%
GOV 101	23	17	74%	17	74%
PHI 101	23	16	70%	17	74%
HIS 122	26	15	58%	17	65%
LIT 272	26	15	58%	17	65%
<b>Total</b>	<b>358</b>	<b>226</b>	<b>63%</b>	<b>260</b>	<b>73%</b>
<b>Gender</b>					
Female	178	119	67%	136	76%
Male	180	107	59%	124	69%
<b>Ethnicity</b>					
Majority (White non-Hispanic)	238	146	61%	172	72%
Hispanic	76	50	66%	54	71%
Minority (Asian, Black non-Hispanic, American Indian)	16	11	69%	12	75%
Other (Missing, Unknown, NRA)	28	19	68%	22	79%
<b>Age</b>					
<=25	330	202	61%	236	72%
>25	28	24	86%	24	86%

\* The grades C-, D and D+ account for 7% of the overall grade distribution for the term.

## NECC Student Retention Report

### Fall 2008 Cohort

Students removed from cohort(s) after graduating or transferring to a 4-year college

	Fall 08 Total Students	Spring 09 Remaining Students	Retention Fall 08-Spring 09	Graduates AY 2008-2009	Transfer to 4-Year College	Fall 09 Remaining Students	Retention Fall 08-Fall 09
Overall Cohort	7,020	4,671	67%	625	552	3,129	61%
<u>Gender:</u>							
Male	2,564	1,690	66%	201	203	1,167	61%
Female	4,456	2,981	67%	424	349	1,962	61%
<u>Federal Age Categories:</u>							
17 & younger	107	62	58%	1	35	38	69%
18-19	1,419	1,062	75%	25	133	803	68%
20-21	1,418	972	69%	120	137	649	64%
22-24	1,130	670	59%	132	99	430	58%
25-29	871	559	64%	101	50	352	58%
30-34	537	346	64%	50	30	216	55%
35-39	429	301	70%	53	24	205	66%
40-49	765	496	65%	104	30	311	58%
50-64	328	194	59%	39	14	118	52%
65 & older	13	8	62%	0	0	5	38%
Unknown	3	1	33%	0	0	2	67%
<u>Achieving the Dream Age Categories:</u>							
25 & younger	4,274	2,894	68%	302	416	1,992	63%
26 & older	2,743	1,776	65%	323	136	1,135	58%
<u>Race/Ethnicity:</u>							
American Indian	24	16	67%	2	1	14	71%
Asian	122	81	66%	10	6	58	61%
Black, non-Hispanic	231	153	66%	22	15	94	57%
<i>Total Minority (I, A, B)</i>	377	250	66%	34	22	166	59%
Hispanic	1,611	1,078	67%	84	78	773	58%
Non-Resident Alien	52	36	69%	3	5	25	63%
Unknown	730	405	55%	24	122	278	58%
White, non-Hispanic	4,250	2,902	68%	480	325	1,887	63%
<u>Credit Enrollment:</u>							
Part-Time, 11 or fewer credits	4,414	2,673	61%	367	330	1,782	56%
Full-Time, 12 or more credits	2,606	1,998	77%	258	222	1,347	70%
<u>Financial Aid:</u>							
Received Aid	2,966	2,302	78%	291	160	1,553	68%
Did Not Receive Aid	4,054	2,369	58%	334	392	1,576	57%

## NECC Student Retention Report

### Fall 2008 Cohort - by Program

Students removed from cohort(s) after graduating or transferring to a 4-year college

Program Code	Program Title	Fall 07 Total Students	Spring 08 Remaining Students	Retention Fall 07-Spring 08	Graduates AY 2007- 2008	Transfer to 4-Year College	Fall 08 Remaining Students	Retention Fall 07-Fall 08
0000	Default	1	0	0%	0	0	1	100%
0100	Liberal Arts	371	201	54%	20	35	114	46%
0103	LA: Physical Ed/Recreation	52	34	65%	4	4	24	62%
0104	LA: Creative Arts	12	6	50%	0	1	2	25%
0105	LA: Dance	7	3	43%	0	2	1	43%
0106	LA: Journalism/Broadcasting	51	29	57%	8	3	17	55%
0107	LA: Music	5	4	80%	0	1	1	40%
0110	LA: Earth Science	9	3	33%	0	2	1	33%
0113	LA: Theatre	20	13	65%	1	0	9	50%
0118	LA: International Relations	5	4	80%	0	1	2	60%
0121	LA: Political Science	11	7	64%	0	1	3	36%
0122	LA: History	35	15	43%	2	7	12	60%
0124	Paralegal Certificate	8	3	38%	3	0	1	50%
0127	LA: Physics	9	5	56%	0	0	4	44%
0128	LA: Computer Information Sci	9	3	33%	1	0	3	44%
0131	LA: Biology	82	55	67%	2	12	27	50%
0132	LA: Chemistry	9	5	56%	0	2	5	78%
0134	LA: Writing	29	16	55%	0	6	8	48%
0135	LA: Legal Studies	10	5	50%	0	0	4	40%
0137	LA: Psychology	127	70	55%	11	12	38	48%
0138	Graphic Design/Desktop Publish	12	11	92%	0	0	3	25%
0141	LA: Social Work	2	1	50%	0	0	0	0%
0143	LA: Philosophy	11	7	64%	2	0	4	55%
0144	Paralegal Career	20	12	60%	6	0	6	60%
0145	Paralegal Transfer	27	13	48%	3	3	8	52%
0147	Elementary Education	131	78	60%	23	12	36	54%
0155	Dance Education	8	4	50%	2	0	2	50%
0180	General Studies	633	322	51%	39	56	176	43%
0181	Graphic Design	119	66	55%	12	9	40	51%
0182	Illustration	28	19	68%	0	2	13	54%
0190	GenStu Eng Lng Cluster Deaf HH	5	0	0%	0	0	1	20%
0191	General Studies: Visual Arts	30	16	53%	1	4	8	43%
0192	General Studies: Multi-Media	33	21	64%	1	2	16	58%
0193	General Studies: Music Option	44	22	50%	3	3	12	41%
0194	General Studies: Dance Option	7	6	86%	0	0	5	71%
0200	Criminal Justice	376	246	65%	27	24	176	60%
0201	Early Childhood Education	213	139	65%	21	11	105	64%
0209	Practical Nursing (PN)	26	23	88%	2	0	4	23%

### NECC Student Retention Report

0212	Radiologic Technology	46	45	98%	21	0	21	91%
0213	Nursing (ADN) Day	99	95	96%	42	2	43	88%
0214	Respiratory Care	37	35	95%	10	0	25	95%
0217	Alcohol Drug Abuse Counseling	47	34	72%	7	1	22	64%
0218	Dental Assisting	32	25	78%	22	1	1	75%
0233	Nursing (ADN) Eve	87	85	98%	42	3	35	92%
0234	Polysomnography	1	0	0%	0	0	0	0%
0239	Law Enforcement	22	13	59%	6	0	4	45%
0245	DST: Sign Language Interpreter	10	7	70%	1	1	3	50%
0246	DST: Sign Lang Interpret Cert	10	8	80%	3	0	3	60%
0247	DST: American Sign Language	6	6	100%	2	0	3	83%
0254	Paramedic Technology Cert	22	17	77%	1	2	10	59%
0255	Human Services	40	24	60%	7	5	14	65%
0256	Paramedic (EMT-P) Technology	3	0	0%	1	0	0	33%
0257	Computed Tomography (CT) Cert	13	10	77%	0	0	1	8%
0260	Medical Assistant (Day)	40	31	78%	22	0	3	63%
0261	Medical Assistant (Eve)	24	18	75%	5	0	11	67%
0262	Community Support Human Svcs	12	8	67%	2	0	4	50%
0264	Sleep Technologist	22	19	86%	19	0	1	91%
0291	Phlebotomy Technician Cert	31	16	52%	3	0	7	32%
0300	Accounting	136	84	62%	13	6	54	54%
0308	Business Management	315	164	52%	16	19	101	43%
0311	Business Transfer	326	218	67%	35	34	120	58%
0319	Medical Transcription Cert	4	3	75%	0	0	1	25%
0338	Medical Billing Cert	51	30	59%	1	0	13	27%
0343	Bus Mgt: Hospitality Option	48	27	56%	3	1	15	40%
0344	Bus Mgt: Hospitality Cert	10	6	60%	1	0	4	50%
0349	Medical Coding	26	17	65%	2	0	5	27%
0366	Bus Mgt: Healthcare Practice	42	27	64%	1	2	18	50%
0372	Bus Mgt: Computer Applications	42	29	69%	4	4	14	52%
0506	Electronic Technology	39	23	59%	2	0	13	38%
0507	Engineering Science	115	84	73%	5	19	52	66%
0521	Computer Aided Drafting	16	8	50%	1	1	2	25%
0529	Electronic Equipment Technolog	7	2	29%	0	0	2	29%
0535	Computer Applications Cert	10	3	30%	3	0	1	40%
0539	Web Page Design & Development	7	2	29%	0	0	2	29%
0544	Computer Networking Cert	17	9	53%	2	0	4	35%
0546	Elect Tech: Computer Systems	18	12	67%	1	0	7	44%
0559	CIS: Information Technology	123	88	72%	5	6	59	57%
0562	Information Technology Fluency	3	1	33%	1	1	0	67%
0563	CIS: Applications Option	16	10	63%	1	0	5	38%
0564	Computer Forensics Basic Cert	8	3	38%	1	1	3	63%
0572	Help Desk Cert	3	2	67%	0	0	0	0%

### NECC Student Retention Report

0660	General Studies: ESL Studies	372	242	65%	0	7	170	48%
0662	Direct Support	2	0	0%	0	0	0	0%
0663	Direct Support	4	2	50%	2	0	0	50%
0994	Unclassified -Home Schooled	1	0	0%	0	0	0	0%
0995	Unclassified -High School	105	8	8%	0	48	4	50%
0996	Unclassified -Former Graduate	12	1	8%	0	3	0	25%
0997	Unclassified -Academic Status	71	13	18%	0	3	13	23%
0998	Unclassified -No Matriculate	300	79	26%	0	64	20	28%
0999	Unclassified -Major Undeclared	380	111	29%	0	59	28	23%
7144	Gen Studies: Paralegal	29	12	41%	0	2	2	14%
7201	Gen Studies: Early Childhood	2	2	100%	0	0	2	100%
7209	Gen Studies: Practical Nursing	54	28	52%	0	3	14	31%
7212	Gen Studies: Radiologic Tech	205	120	59%	0	8	63	35%
7213	Gen Studies: Nursing	667	399	60%	0	45	176	33%
7214	Gen Studies: Respiratory Care	17	12	71%	0	0	4	24%
7218	Gen Studies: Dental Assisting	29	15	52%	0	1	5	21%
7234	Gen Studies: Sleep Technologist	9	4	44%	0	1	0	11%
7245	Gen Studies: Deaf Studies	42	21	50%	0	2	9	26%
7254	Gen Studies: Paramedic	19	5	26%	0	1	2	16%
7255	Gen Studies: Human Services	75	22	29%	0	2	9	15%
7256	Gen Studies: Paramedic Degree	5	2	40%	0	0	0	0%
7257	Gen Studies: Computed Tomography	1	0	0%	0	0	0	0%
7260	Gen Studies: Medical Assistant	46	16	35%	0	1	5	13%

## NECC Student Retention Report

### Fall 2007 Cohort

Students removed from cohort(s) after graduating or transferring to a 4-year college

	Fall 07 Total Students	Spring 08 Remaining Students	Retention Fall 07- Spring 08	Graduates AY 2007-2008	Transfer to 4-Year College	Fall 08 Remaining Students	Retention Fall 07-Fall 08
Overall Cohort	6,526	4,369	67%	561	561	2,898	62%
<u>Gender:</u>							
Male	2,303	1,534	67%	152	230	1,051	62%
Female	4,196	2,825	67%	407	330	1,843	61%
Unknown	27	10	37%	2	1	4	26%
<u>Federal Age Categories:</u>							
17 & younger	83	30	36%	1	25	23	59%
18-19	1,316	956	73%	10	137	714	65%
20-21	1,300	904	70%	123	151	611	68%
22-24	964	604	63%	107	87	363	58%
25-29	785	509	65%	83	52	325	59%
30-34	512	345	67%	54	27	221	59%
35-39	449	302	67%	43	25	190	57%
40-49	789	513	65%	88	42	345	60%
50-64	303	197	65%	50	15	102	55%
65 & older	17	6	35%	2	0	4	35%
Unknown	8	3	38%	0	0	0	0%
<u>Achieving the Dream Age Categories:</u>							
25 & younger	3,855	2,618	68%	259	417	1,785	64%
26 & older	2,663	1,748	66%	302	144	1,113	59%
<u>Race/Ethnicity:</u>							
American Indian	16	11	69%	1	1	7	56%
Asian	105	72	69%	11	9	42	59%
Black, non-Hispanic	217	138	64%	27	16	86	59%
<i>Total Minority (I, A, B)</i>	338	221	65%	39	26	135	59%
Hispanic	1,394	928	67%	62	86	698	61%
Non-Resident Alien	56	38	68%	5	1	27	59%
Unknown	654	345	53%	21	102	219	52%
White, non-Hispanic	4,084	2,837	69%	434	346	1,819	64%
<u>Credit Enrollment:</u>							
Part-Time, 11 or fewer credits	4,140	2,506	61%	337	327	1,677	57%
Full-Time, 12 or more credits	2,386	1,863	78%	224	234	1,221	70%
<u>Financial Aid:</u>							
Received Aid	2,503	1,959	78%	263	146	1,318	69%
Did Not Receive Aid	4,023	2,410	60%	298	415	1,580	57%

## NECC Student Retention Report

### Fall 2007 Cohort - by Program

Students removed from cohort(s) after graduating or transferring to a 4-year college

Program Code	Program Title	Fall 07 Total Students	Spring 08 Remaining Students	Retention Fall 07-Spring 08	Graduates AY 2007- 2008	Transfer to 4- Year College	Fall 08 Remaining Students	Retention Fall 07-Fall 08
0100	Liberal Arts	317	188	59%	23	31	109	51%
0103	LA: Physical Ed/Recreation	74	49	66%	5	12	19	49%
0104	LA: Creative Arts	5	2	40%	0	0	2	40%
0105	LA: Dance	13	8	62%	0	0	5	38%
0106	LA: Journalism/Broadcasting	50	35	70%	5	8	16	58%
0107	LA: Music	42	22	52%	0	1	2	7%
0110	LA: Earth Science	7	4	57%	0	2	2	57%
0113	LA: Theatre	14	10	71%	0	0	9	64%
0118	LA: International Relations	5	4	80%	0	2	2	80%
0121	LA: Political Science	10	7	70%	0	2	3	50%
0122	LA: History	28	19	68%	3	4	12	68%
0124	Paralegal Certificate	13	7	54%	4	1	1	46%
0127	LA: Physics	6	4	67%	0	2	2	67%
0128	LA: Computer Information Sci	17	11	65%	3	1	3	41%
0131	LA: Biology	65	44	68%	0	9	25	52%
0132	LA: Chemistry	2	2	100%	0	1	1	100%
0134	LA: Writing	40	24	60%	5	3	5	33%
0135	LA: Legal Studies	17	10	59%	0	3	5	47%
0137	LA: Psychology	142	90	63%	17	22	42	57%
0138	Graphic Design/Desktop Publish	14	6	43%	1	1	4	43%
0141	LA: Social Work	5	2	40%	0	1	1	40%
0143	LA: Philosophy	9	6	67%	0	1	6	78%
0144	Paralegal Career	27	20	74%	3	2	13	67%
0145	Paralegal Transfer	23	17	74%	5	3	12	87%
0146	Elementary Education Cert	2	1	50%	0	2	0	100%
0147	Elementary Education	132	92	70%	17	15	56	67%
0155	Dance Education	5	2	40%	0	0	2	40%
0180	General Studies	596	322	54%	26	44	183	42%
0181	Graphic Design	125	82	66%	14	8	49	57%
0182	Illustration	16	13	81%	2	1	9	75%
0190	GenStu Eng Lng Cluster Deaf HH	2	0	0%	0	0	1	50%
0191	General Studies: Visual Arts	34	18	53%	4	2	12	53%
0192	General Studies: Multi-Media	24	15	63%	0	0	14	58%
0200	Criminal Justice	314	204	65%	22	17	141	57%
0201	Early Childhood Education	189	117	62%	15	13	84	59%
0209	Practical Nursing (PN)	27	24	89%	2	0	3	19%
0212	Radiologic Technology	49	46	94%	21	0	21	86%
0213	Nursing (ADN) Day	89	82	92%	38	2	41	91%

## NECC Student Retention Report

0214	Respiratory Care	40	35	88%	23	0	10	83%
0217	Alcohol Drug Abuse Counseling	37	22	59%	11	3	11	68%
0218	Dental Assisting	30	20	67%	13	1	0	47%
0233	Nursing (ADN) Eve	75	73	97%	32	0	38	93%
0234	Polysomnography	2	1	50%	0	0	0	0%
0239	Law Enforcement	30	21	70%	6	3	8	57%
0245	DST: Sign Language Interpreter	19	15	79%	5	4	5	74%
0246	DST: Sign Lang Interpret Cert	11	11	100%	5	0	4	82%
0247	DST: American Sign Language	4	3	75%	1	1	0	50%
0254	Paramedic Technology Cert	14	12	86%	0	1	6	50%
0255	Human Services	47	35	74%	18	2	14	72%
0256	Paramedic (EMT-P) Technology	1	1	100%	0	0	1	100%
0260	Medical Assistant (Day)	39	31	79%	11	1	8	51%
0261	Medical Assistant (Eve)	21	19	90%	5	0	9	67%
0262	Community Support Human Svcs	10	7	70%	2	0	4	60%
0264	Sleep Technologist	23	21	91%	14	0	1	65%
0291	Phlebotomy Technician Cert	23	12	52%	1	2	6	39%
0300	Accounting	138	86	62%	18	6	54	57%
0308	Business Management	245	134	55%	15	12	91	48%
0311	Business Transfer	331	221	67%	37	44	128	63%
0319	Medical Transcription Cert	9	5	56%	0	0	1	11%
0338	Medical Billing Cert	38	29	76%	2	0	14	42%
0343	Bus Mgt: Hospitality Option	50	33	66%	6	2	16	48%
0344	Bus Mgt: Hospitality Cert	11	7	64%	0	1	2	27%
0349	Medical Coding	23	13	57%	3	0	9	52%
0366	Bus Mgt: Healthcare Practice	33	19	58%	2	0	19	64%
0372	Bus Mgt: Computer Applications	33	19	58%	2	1	15	55%
0506	Electronic Technology	27	16	59%	1	1	9	41%
0507	Engineering Science	101	65	64%	2	18	39	58%
0521	Computer Aided Drafting	13	6	46%	2	0	6	62%
0526	CIS: Programming Option	3	1	33%	1	0	0	33%
0529	Electronic Equipment Technolog	8	5	63%	0	0	2	25%
0535	Computer Applications Cert	5	2	40%	0	0	0	0%
0539	Web Page Design & Development	5	3	60%	0	0	1	20%
0544	Computer Networking Cert	9	7	78%	0	0	4	44%
0546	Elect Tech: Computer Systems	17	9	53%	0	0	6	35%
0559	CIS: Information Technology	94	62	66%	4	6	41	54%
0562	Information Technology Fluency	2	2	100%	0	0	0	0%
0563	CIS: Applications Option	8	2	25%	0	1	1	25%
0572	Help Desk Cert	2	0	0%	0	0	0	0%
0660	General Studies: ESL Studies	371	239	64%	0	8	175	49%
0662	Direct Support	1	1	100%	0	0	0	0%
0663	Direct Support	5	2	40%	1	0	0	20%



### NECC Student Retention Report

0995	Unclassified -High School	72	22	31%	0	35	10	63%
0996	Unclassified -Former Graduate	7	1	14%	0	2	0	29%
0997	Unclassified -Academic Status	47	8	17%	0	5	5	21%
0998	Unclassified -No Matriculate	177	48	27%	0	50	8	33%
0999	Unclassified -Major Undeclared	605	196	32%	0	95	51	24%
7144	Gen Studies: Paralegal	20	10	50%	0	2	5	35%
7209	Gen Studies: Practical Nursing	63	34	54%	0	3	13	25%
7212	Gen Studies: Radiologic Tech	171	110	64%	0	4	40	26%
7213	Gen Studies: Nursing	629	422	67%	0	48	198	39%
7214	Gen Studies: Respiratory Care	27	10	37%	0	0	4	15%
7218	Gen Studies: Dental Assisting	28	11	39%	0	0	3	11%
7234	Gen Studies: Sleep Technologst	10	6	60%	0	1	2	30%
7245	Gen Studies: Deaf Studies	19	12	63%	0	1	4	26%
7254	Gen Studies: Paramedic	7	3	43%	0	0	2	29%
7255	Gen Studies: Human Services	55	16	29%	0	1	5	11%
7256	Gen Studies: Paramedic Degree	3	2	67%	0	0	0	0%
7260	Gen Studies: Medical Assistant	29	11	38%	0	0	5	17%

## NECC Student Retention Report

### Fall 2006 Cohort

Students removed from cohort(s) after graduating or transferring to a 4-year college

	Fall 06 Total Students	Spring 07 Remaining Students	Retention Fall 06-Spring 07	Graduates AY 2006-2007	Transfer to 4-Year College	Fall 07 Remaining Students	Retention Fall 06-Fall 07
Overall Cohort	6,361	4,336	68%	569	492	2,785	60%
<u>Gender:</u>							
Male	2,174	1,486	68%	162	183	961	60%
Female	4,187	2,850	68%	407	309	1,824	61%
<u>Federal Age Categories:</u>							
17 & younger	69	33	48%	1	25	26	75%
18-19	1,203	932	77%	18	110	665	66%
20-21	1,248	884	71%	102	120	548	62%
22-24	915	562	61%	110	89	337	59%
25-29	808	520	64%	98	59	304	57%
30-34	492	326	66%	39	23	219	57%
35-39	510	350	69%	56	28	221	60%
40-49	804	540	67%	103	28	359	61%
50-64	296	187	63%	42	10	104	53%
65 & older	9	2	22%	0	0	1	11%
Unknown	7	0	0%	0	0	1	14%
<u>Achieving the Dream Age Categories:</u>							
25 & younger	3,626	2,537	70%	247	361	1,650	62%
26 & older	2,728	1,799	66%	322	131	1,134	58%
<u>Race/Ethnicity:</u>							
American Indian	22	16	73%	1	2	9	55%
Asian	118	77	65%	14	12	45	60%
Black, non-Hispanic	191	127	66%	12	8	82	53%
<i>Total Minority (I, A, B)</i>	331	220	66%	27	22	136	56%
Hispanic	1,288	884	69%	56	45	594	54%
Non-Resident Alien	61	42	69%	5	3	31	64%
Unknown	568	337	59%	21	81	217	56%
White, non-Hispanic	4,113	2,853	69%	460	341	1,807	63%
<u>Credit Enrollment:</u>							
Part-Time, 11 or fewer credits	4,010	2,482	62%	337	283	1,635	56%
Full-Time, 12 or more credits	2,351	1,854	79%	232	209	1,150	68%
<u>Financial Aid:</u>							
Received Aid	2,019	1,596	79%	181	91	1,022	64%
Did Not Receive Aid	4,342	2,740	63%	388	401	1,763	59%

## NECC Student Retention Report

### Fall 2006 Cohort - by Program

Students removed from cohort(s) after graduating or transferring to a 4-year college

Program Code	Program Title	Fall 06 Total Students	Spring 07 Remaining Students	Retention Fall 06-Spring 07	Graduates AY 2006- 2007	Transfer to 4- Year College	Fall 07 Remaining Students	Retention Fall 06-Fall 07
0000	Default	5	0	0%	0	1	0	20%
0100	Liberal Arts	341	194	57%	29	40	106	51%
0103	LA: Physical Ed/Recreation	60	44	73%	2	5	30	62%
0104	LA: Creative Arts	5	3	60%	0	0	1	20%
0105	LA: Dance	8	6	75%	0	0	5	63%
0106	LA: Journalism/Broadcasting	43	30	70%	5	3	21	67%
0107	LA: Music	36	25	69%	1	3	14	50%
0110	LA: Earth Science	8	6	75%	1	3	3	88%
0113	LA: Theatre	14	10	71%	2	2	5	64%
0115	LA: Women's Studies	1	0	0%	0	0	0	0%
0116	LA: Cross-Cultural	1	0	0%	0	0	0	0%
0118	LA: International Relations	8	5	63%	0	1	3	50%
0121	LA: Political Science	10	5	50%	2	0	3	50%
0122	LA: History	34	24	71%	2	4	14	59%
0124	Paralegal Certificate	17	10	59%	3	1	6	59%
0127	LA: Physics	5	2	40%	0	1	0	20%
0128	LA: Computer Information Sci	21	14	67%	0	3	9	57%
0131	LA: Biology	54	36	67%	1	10	12	43%
0132	LA: Chemistry	7	1	14%	0	2	0	29%
0134	LA: Writing	33	24	73%	1	2	17	61%
0135	LA: Legal Studies	9	5	56%	0	0	6	67%
0137	LA: Psychology	136	91	67%	8	8	55	52%
0138	Graphic Design/Desktop Publish	23	11	48%	2	0	7	39%
0141	LA: Social Work	10	7	70%	0	2	4	60%
0143	LA: Philosophy	13	7	54%	1	3	5	69%
0144	Paralegal Career	28	21	75%	3	2	14	68%
0145	Paralegal Transfer	25	19	76%	8	2	13	92%
0146	Elementary Education Cert	7	6	86%	0	3	2	71%
0147	Elementary Education	131	87	66%	10	16	58	64%
0155	Dance Education	7	5	71%	1	0	3	57%
0180	General Studies	610	346	57%	32	43	169	40%
0181	Graphic Design	130	94	72%	14	6	58	60%
0182	Illustration	12	10	83%	1	0	9	83%
0190	GenStu Eng Lng Cluster Deaf HH	1	0	0%	0	0	0	0%
0191	General Studies: Visual Arts	27	22	81%	5	3	8	59%
0192	General Studies: Multi-Media	24	11	46%	2	1	4	29%
0200	Criminal Justice	273	175	64%	20	15	119	56%
0201	Early Childhood Education	193	134	69%	20	15	79	59%

## NECC Student Retention Report

0209	Practical Nursing (PN)	26	21	81%	2	0	2	15%
0212	Radiologic Technology	48	44	92%	20	0	24	92%
0213	Nursing (ADN) Day	88	82	93%	38	0	40	89%
0214	Respiratory Care	46	42	91%	14	1	22	80%
0217	Alcohol Drug Abuse Counseling	36	24	67%	5	3	14	61%
0218	Dental Assisting	32	24	75%	19	0	2	66%
0233	Nursing (ADN) Eve	77	76	99%	37	2	32	92%
0234	Polysomnography	24	19	79%	18	0	1	79%
0239	Law Enforcement	37	35	95%	3	5	18	70%
0245	DST: Sign Language Interpreter	23	19	83%	2	2	9	57%
0246	DST: Sign Lang Interpret Cert	6	5	83%	3	1	2	100%
0249	Critical Care Nursing	2	0	0%	0	0	0	0%
0254	Paramedic Technology Cert	6	0	0%	2	0	0	33%
0255	Human Services	52	40	77%	19	2	21	81%
0256	Paramedic (EMT-P) Technology	8	4	50%	0	1	1	25%
0260	Medical Assistant (Day)	28	23	82%	12	0	8	71%
0261	Medical Assistant (Eve)	18	11	61%	3	0	7	56%
0262	Community Support Human Svcs	14	5	36%	3	0	5	57%
0300	Accounting	114	76	67%	18	2	52	63%
0308	Business Management	264	152	58%	18	14	78	42%
0311	Business Transfer	334	215	64%	36	36	117	57%
0323	Medical Terminology &Trans Ct	1	1	100%	0	0	0	0%
0338	Medical Billing Cert	41	24	59%	3	1	12	39%
0343	Bus Mgt: Hospitality Option	47	31	66%	7	2	14	49%
0344	Bus Mgt: Hospitality Cert	7	7	100%	0	0	3	43%
0349	Medical Coding	38	25	66%	1	0	12	34%
0366	Bus Mgt: Healthcare Practice	21	15	71%	0	0	14	67%
0372	Bus Mgt: Computer Applications	37	20	54%	3	0	14	46%
0506	Electronic Technology	27	16	59%	2	3	12	63%
0507	Engineering Science	88	59	67%	0	13	35	55%
0521	Computer Aided Drafting	7	5	71%	1	0	4	71%
0526	CIS: Programming	15	9	60%	3	3	3	60%
0527	Elect Tech: Biomedical	1	0	0%	1	0	0	100%
0529	Electronic Equipment Technolog	5	4	80%	1	0	0	20%
0535	Computer Applications	5	4	80%	1	0	0	20%
0536	CIS: Applications & Operations	7	0	0%	0	1	0	14%
0539	Web Page Design & Development	8	4	50%	0	0	1	13%
0541	Web Page Design: Graphics	1	1	100%	0	0	0	0%
0543	Computer Service Specialist	1	0	0%	0	0	0	0%
0544	Computer Networking	10	6	60%	1	0	3	40%
0546	Elect Tech: Computer Systems	15	11	73%	3	0	4	47%
0558	Elect Tech: Computer Netwk Eng	1	0	0%	0	0	0	0%
0559	CIS: Information Technology	73	44	60%	1	9	32	58%

### NECC Student Retention Report

0572	Help Desk Cert	5	1	20%	0	0	0	0%
0660	General Studies: ESL Studies	404	274	68%	0	7	174	45%
0662	Direct Support	7	3	43%	0	0	0	0%
0995	Unclassified -High School	3	1	33%	0	1	0	33%
0996	Unclassified -Former Graduate	8	2	25%	0	1	0	13%
0997	Unclassified -Academic Status	57	21	37%	0	2	3	9%
0998	Unclassified -No Matriculate	7	3	43%	0	3	0	43%
0999	Unclassified -Major Undeclared	783	232	30%	0	144	95	31%
7144	Gen Studies: Paralegal	11	2	18%	0	3	1	36%
7209	Gen Studies: Practical Nursing	106	59	56%	0	4	24	26%
7212	Gen Studies: Radiologic Tech	176	113	64%	0	8	51	34%
7213	Gen Studies: Nursing	569	352	62%	0	37	184	39%
7214	Gen Studies: Respiratory Care	14	7	50%	0	1	2	21%
7218	Gen Studies: Dental Asstistant	23	9	39%	0	0	4	17%
7234	Gen Studies: Polysomnograpy	8	7	88%	0	0	1	13%
7245	Gen Studies: Deaf Studies	24	12	50%	0	1	3	17%
7254	Gen Studies: Paramedic Cert	4	1	25%	0	0	0	0%
7255	Gen Studies: Human Services	26	9	35%	0	1	5	23%
7260	Gen Studies: Medical Assistant	17	10	59%	0	0	0	0%

## NECC Student Retention Report

### Fall 2005 Cohort

Students removed from cohort(s) after graduating or transferring to a 4-year college

	Fall 05 Total Students	Spring 06 Remaining Students	Retention Fall 05- Spring 06	Graduates AY 2005-2006	Transfer to 4-Year College	Fall 06 Remaining Students	Retention Fall 05-Fall 06
Overall Cohort	6,362	4,236	67%	582	493	2,766	60%
<u>Gender:</u>							
Male	2,215	1,435	65%	182	193	927	59%
Female	4,147	2,801	68%	400	300	1,839	61%
<u>Federal Age Categories:</u>							
17 & younger	73	35	48%	0	19	30	67%
18-19	1,120	790	71%	15	102	608	65%
20-21	1,201	849	71%	127	135	520	65%
22-24	939	581	62%	115	81	352	58%
25-29	810	510	63%	77	58	325	57%
30-34	531	343	65%	45	28	219	55%
35-39	502	339	68%	49	23	230	60%
40-49	834	558	67%	108	36	356	60%
50-64	327	218	67%	46	9	122	54%
65 & older	12	7	58%	0	0	1	8%
Unknown	13	6	46%	0	2	3	38%
<u>Achieving the Dream Age Categories:</u>							
25 & younger	3,529	2,384	68%	275	358	1,594	63%
26 & older	2,820	1,846	65%	307	133	1,169	57%
<u>Race/Ethnicity:</u>							
American Indian	22	16	73%	2	1	10	59%
Asian	126	88	70%	13	15	59	69%
Black, non-Hispanic	154	96	62%	10	7	63	52%
<i>Total Minority (I, A, B)</i>	302	200	66%	25	23	132	60%
Hispanic	1,260	805	64%	54	56	550	52%
Non-Resident Alien	59	44	75%	4	4	31	66%
Unknown	550	291	53%	11	78	189	51%
White, non-Hispanic	4,191	2,896	69%	488	332	1,864	64%
<u>Credit Enrollment:</u>							
Part-Time, 11 or fewer credits	4,062	2,472	61%	333	278	1,634	55%
Full-Time, 12 or more credits	2,300	1,764	77%	249	215	1,132	69%
<u>Financial Aid:</u>							
Received Aid	2,257	1,767	78%	257	129	1,129	67%
Did Not Receive Aid	4,105	2,469	60%	325	364	1,637	57%

## NECC Student Retention Report

### Fall 2005 Cohort - by Program

Students removed from cohort(s) after graduating or transferring to a 4-year college

Program Code	Program Title	Fall 05	Spring 06	Retention Fall 05-Spring 06	Graduates AY 2005-2006	Transfer to 4-Year College	Fall 06 Remaining Students	Retention Fall 05-Fall 06
		Total Students	Remaining Students					
0000	Default	3	1	33%	0	0	0	0%
0100	Liberal Arts	376	216	57%	30	42	103	47%
0103	LA: Phys Ed/Recr Option	56	42	75%	3	5	29	66%
0104	LA: Creative Arts Option	7	4	57%	0	0	2	29%
0105	LA: Dance Option	15	9	60%	0	2	5	47%
0106	LA: Journ/Broad Option	50	35	70%	7	5	20	64%
0107	LA: Music Option	41	25	61%	1	5	13	46%
0110	LA: Earth Science Option	3	2	67%	0	0	3	100%
0113	LA: Theatre Option	24	18	75%	1	0	9	42%
0115	LA: Women's Studies Option	1	0	0%	0	0	0	0%
0116	LA: Cross-Cultural Option	2	0	0%	0	0	1	50%
0118	LA: Int'l Relations Option	6	5	83%	0	0	4	67%
0121	LA: Political Science Option	14	6	43%	0	1	4	36%
0122	LA: History Option	29	20	69%	1	5	12	62%
0124	Paralegal Certificate	19	16	84%	4	1	9	74%
0127	LA: Physics Option	6	2	33%	0	3	0	50%
0128	LA: Computer Info Sci Option	10	7	70%	0	2	5	70%
0131	LA: Biology Option	54	32	59%	1	16	14	57%
0132	LA: Chemistry Option	8	6	75%	0	2	4	75%
0134	LA: Writing Option	31	21	68%	0	4	14	58%
0135	LA: Legal Studies Option	12	5	42%	0	2	2	33%
0137	LA: Psychology Option	136	84	62%	5	17	53	55%
0138	Graphic Design: Desktop Pub Ct	29	16	55%	4	0	9	45%
0139	LA: Teacher Exploration	1	0	0%	0	0	0	0%
0141	LA: Social Work Option	17	5	29%	0	0	1	6%
0143	LA: Philosophy Option	13	11	85%	0	0	6	46%
0144	Paralegal Career Option	30	20	67%	3	0	14	57%
0145	Paralegal Transfer Option	31	27	87%	6	3	12	68%
0146	Elementary Education Cert	23	15	65%	0	1	5	26%
0147	Elementary Education	116	78	67%	11	13	44	59%
0155	Dance Education Certificate	6	6	100%	1	0	3	67%
0180	General Studies	484	238	49%	26	38	111	36%
0181	Graphic Design	129	73	57%	12	4	51	52%
0182	Illustration	17	14	82%	1	1	6	47%
0185	Liberal Arts:Teacher Prep	1	0	0%	0	0	0	0%
0190	GenStu Eng Lng Cluster Deaf HH	4	1	25%	0	0	0	0%
0191	General Studies: Visual Arts	22	16	73%	2	3	9	64%
0192	General Studies:Multi-Media Op	26	13	50%	0	1	12	50%

### NECC Student Retention Report

0200	Criminal Justice	287	186	65%	24	19	119	56%
0201	Early Childhood Ed	158	108	68%	10	10	69	56%
0209	Practical Nursing	31	26	84%	3	0	5	26%
0212	Radiologic Technology	57	52	91%	25	1	27	93%
0213	Nursing (Day)	100	90	90%	42	2	45	89%
0214	Respiratory Care	40	34	85%	7	0	17	60%
0217	Alcohol/Drug Abuse Counsel	41	30	73%	11	0	14	61%
0218	Dental Assistant Certificate	31	24	77%	22	0	3	81%
0233	Nursing (Eve)	89	83	93%	32	5	38	84%
0234	Polysomnography Certificate	21	21	100%	11	0	5	76%
0237	Early Childhood Ed (Eve)	31	0	0%	0	1	0	3%
0239	Law Enforcement Certificate	15	11	73%	0	1	8	60%
0245	Deaf Studies:Sign Lg Intr Opt	21	19	90%	5	4	9	86%
0246	Deaf Studies:Sign Lg Intr Cert	7	6	86%	4	0	2	86%
0247	Deaf Studies: ASL Studies Opt	1	1	100%	1	0	0	100%
0249	Critical Care Nursing Cert	9	7	78%	0	0	1	11%
0255	Human Services	38	25	66%	4	2	20	68%
0260	Medical Assistant (Day)	32	25	78%	16	0	7	72%
0261	Medical Assistant (Eve)	9	7	78%	0	0	5	56%
0262	Comm Support HS Pract Cert	20	15	75%	6	0	7	65%
0300	Accounting	112	74	66%	13	9	43	58%
0308	Business Management	236	130	55%	17	11	76	44%
0311	Business Transfer	315	205	65%	43	38	121	64%
0323	Medical Terminology &Trans Ct	11	2	18%	0	0	0	0%
0338	Medical Billing Cert	28	17	61%	1	0	9	36%
0343	Bus Mgt:Hospitality Option	40	23	58%	6	1	14	53%
0344	Bus Mgt:Hospitality Cert	11	7	64%	2	1	4	64%
0349	Coding Certificate	29	21	72%	1	0	11	41%
0366	Bus Mgt:Healthcare Practice	7	6	86%	0	0	4	57%
0372	Bus Mgt:Computer Appl Option	40	21	53%	3	1	10	35%
0506	Electronic Technology	27	12	44%	3	1	9	48%
0507	Engineering Science	75	49	65%	2	10	33	60%
0521	Computer Aided Drafting Cert	10	7	70%	1	0	2	30%
0526	CIS: Programming	21	13	62%	3	1	11	71%
0527	Electronic Tech: Biomedical	3	1	33%	1	0	0	33%
0529	Electronic Equipment Tech Cert	7	3	43%	1	0	2	43%
0535	Computer Application Cert	9	5	56%	2	0	1	33%
0536	CIS: Application & Operations	9	5	56%	1	0	2	33%
0539	Web Page Design & Dev Cert	10	5	50%	2	0	3	50%
0541	Web Page Design: Graphics Cert	8	7	88%	6	0	0	75%
0543	Computer Service Spec Cert	4	3	75%	1	0	1	50%
0544	Computer Networks Certificate	15	10	67%	3	1	4	53%
0546	Elect Tech:Computer System Opt	15	5	33%	2	2	4	53%



### NECC Student Retention Report

0549	CIS: Web Technologies	2	0	0%	0	0	0	0%
0558	Elect Tech:Comp Netwrk Eng Opt	7	3	43%	4	2	1	100%
0559	CIS:Information Technology	71	44	62%	9	1	24	48%
0572	Help Desk Cert	4	2	50%	0	0	2	50%
0660	General Studies: ESL Studies	487	281	58%	0	9	181	39%
0662	Direct Support Certificate	7	6	86%	3	0	3	86%
0999	Unclassified-Majr Not Declared	850	255	30%	0	160	79	28%
7144	General Studies: Paralegal	15	3	20%	0	0	0	0%
7200	General Studies: Criminal Just	1	0	0%	0	0	0	0%
7201	General Studies: Early Childhd	3	2	67%	0	0	0	0%
7209	General Studies: Pract Nursing	93	47	51%	0	2	29	33%
7212	General Studies: Radiol Tech	170	91	54%	0	8	48	33%
7213	General Studies:Nursing	583	345	59%	0	41	196	41%
7214	General Studies: Resp Care	11	4	36%	0	1	3	36%
7218	General Studies: Dental Asst	36	17	47%	0	0	3	8%
7234	General Studies: Polysomnograp	6	1	17%	0	0	0	0%
7245	General Studies: Deaf Studies	32	20	63%	0	3	9	38%
7254	General Studies:Paramedic Tech	1	0	0%	0	1	0	100%
7255	General Studies: Human Svs	27	5	19%	0	3	2	19%
7260	General Studies: Medical Asst	24	9	38%	0	2	1	13%

## NECC Student Retention Report

### Fall 2004 Cohort

Students removed from cohort(s) after graduating or transferring to a 4-year college

	Fall 04 Total Students	Spring 05 Remaining Students	Retention Fall 04- Spring 05	Graduates AY 2004-2005	Transfer to 4-Year College	Fall 05 Remaining Students	Retention Fall 04-Fall 05
Overall Cohort	6,194	4,174	67%	575	485	2,698	61%
<u>Gender:</u>							
Male	2,109	1,370	65%	178	209	888	60%
Female	4,066	2,796	69%	397	272	1,805	61%
Unknown	19	8	42%	0	4	5	47%
<u>Federal Age Categories:</u>							
17 & younger	64	45	70%	1	19	25	70%
18-19	961	733	76%	14	91	519	65%
20-21	1,104	778	70%	107	114	500	65%
22-24	954	598	63%	106	98	362	59%
25-29	835	520	62%	95	54	334	58%
30-34	531	355	67%	42	36	210	54%
35-39	536	357	67%	56	27	227	58%
40-49	844	565	67%	107	34	371	61%
50-64	348	217	62%	45	12	143	57%
65 & older	11	3	27%	2	0	4	55%
Unknown	6	3	50%	0	0	3	50%
<u>Achieving the Dream Age Categories:</u>							
25 & younger	3,306	2,285	69%	250	337	1,499	63%
26 & older	2,882	1,886	65%	325	148	1,196	58%
<u>Race/Ethnicity:</u>							
American Indian	13	9	69%	1	2	4	54%
Asian	133	87	65%	9	12	52	55%
Black, non-Hispanic	189	121	64%	21	12	58	48%
<i>Total Minority (I, A, B)</i>	335	217	65%	31	26	114	51%
Hispanic	1,359	920	68%	61	57	628	55%
Non-Resident Alien	67	43	64%	3	4	31	57%
Unknown	384	212	55%	15	58	131	53%
White, non-Hispanic	4,049	2,782	69%	465	340	1,794	64%
<u>Credit Enrollment:</u>							
Part-Time, 11 or fewer credits	3,914	2,412	62%	323	275	1,606	56%
Full-Time, 12 or more credits	2,280	1,762	77%	252	210	1,092	68%
<u>Financial Aid:</u>							
Received Aid	2,067	1,579	76%	170	97	1,049	64%
Did Not Receive Aid	4,127	2,595	63%	405	388	1,649	59%

## NECC Student Retention Report

### Fall 2004 Cohort - by Program

Students removed from cohort(s) after graduating or transferring to a 4-year college

Program Code	Program Title	Fall 04	Spring 05	Retention Fall 04-Spring 05	Graduates AY 2004-2005	Transfer to 4-Year College	Fall 05	Retention Fall 04-Fall 05
		Total Students	Remaining Students				Remaining Students	
0000	Default	6	2	33%	0	1	2	50%
0100	Liberal Arts	439	246	56%	35	49	131	49%
0103	LA: Phys Ed/Recr Option	41	27	66%	5	3	19	66%
0104	LA: Creative Arts Option	10	6	60%	0	1	3	40%
0105	LA: Dance Option	18	13	72%	1	1	4	33%
0106	LA: Journ/Broad Option	49	33	67%	4	3	18	51%
0107	LA: Music Option	39	22	56%	0	2	14	41%
0110	LA: Earth Science Option	1	1	100%	0	0	1	100%
0113	LA: Theatre Option	15	10	67%	1	0	10	73%
0116	LA: Cross-Cultural Option	1	1	100%	0	0	1	100%
0118	LA: Int'l Relations Option	6	2	33%	0	1	0	17%
0121	LA: Political Science Option	8	5	63%	1	0	3	50%
0122	LA: History Option	26	18	69%	2	6	8	62%
0124	Paralegal Certificate	19	13	68%	4	2	7	68%
0127	LA: Physics Option	1	1	100%	0	0	0	0%
0128	LA: Computer Info Sci Option	17	5	29%	3	1	3	41%
0131	LA: Biology Option	28	21	75%	1	4	12	61%
0132	LA: Chemistry Option	8	3	38%	1	0	3	50%
0134	LA: Writing Option	22	17	77%	1	3	7	50%
0135	LA: Legal Studies Option	8	2	25%	0	1	2	38%
0137	LA: Psychology Option	117	80	68%	5	9	47	52%
0138	Graphic Design: Desktop Pub Ct	20	12	60%	4	0	7	55%
0139	LA: Teacher Exploration	1	1	100%	0	0	1	100%
0141	LA: Social Work Option	26	14	54%	1	4	3	31%
0143	LA: Philosophy Option	10	5	50%	1	0	5	60%
0144	Paralegal Career Option	27	17	63%	3	2	12	63%
0145	Paralegal Transfer Option	37	20	54%	5	4	14	62%
0146	Elementary Education Cert	42	34	81%	0	3	20	55%
0147	Elementary Education (Day)	89	61	69%	7	12	36	62%
0148	Elementary Education (Evening)	21	12	57%	0	2	0	10%
0155	Dance Education Certificate	6	4	67%	1	0	1	33%
0180	General Studies	378	188	50%	31	38	92	43%
0181	Graphic Design	116	76	66%	12	6	44	53%
0182	Illustration	20	15	75%	4	1	7	60%
0185	Liberal Arts:Teacher Prep	1	1	100%	0	0	1	100%
0190	GenStu Eng.Lng Clustr Deaf HH	8	3	38%	0	0	0	0%
0191	General Studies: Visual Arts	18	11	61%	3	3	7	72%
0192	General Studies:Multi-Media Op	11	7	64%	0	2	3	45%

## NECC Student Retention Report

0200	Criminal Justice	269	176	65%	32	17	115	61%
0201	Early Childhood Ed (Day)	60	46	77%	14	3	20	62%
0209	Practical Nursing	28	24	86%	2	1	3	21%
0212	Radiologic Technology	47	47	100%	20	0	25	96%
0213	Nursing (Day)	88	85	97%	42	1	38	92%
0214	Respiratory Care	36	30	83%	13	2	13	78%
0217	Alcohol/Drug Abuse Counsel	22	14	64%	5	0	8	59%
0218	Dental Assistant Certificate	31	25	81%	20	0	1	68%
0233	Nursing (Eve)	80	76	95%	37	5	30	90%
0234	Polysomnography Certificate	20	14	70%	9	0	0	45%
0237	Early Childhood Ed (Eve)	71	41	58%	3	6	26	49%
0245	Deaf Studies:Sign Lg Intr Opt	28	27	96%	3	1	11	54%
0246	Deaf Studies:Sign Lg Intr Cert	12	9	75%	3	1	4	67%
0247	Deaf Studies: ASL Studies Opt	3	1	33%	0	0	1	33%
0255	Human Services	20	17	85%	3	1	9	65%
0260	Medical Assistant Cert	31	24	77%	13	0	4	55%
0262	Comm Support HS Pract Cert	10	8	80%	2	0	6	80%
0290	Early Childhood Ed Certificate	1	0	0%	0	0	0	0%
0300	Accounting	98	57	58%	17	4	39	61%
0308	Business Management	236	135	57%	28	12	68	46%
0311	Business Transfer	294	190	65%	35	41	106	62%
0323	Medical Terminology &Trans Ct	31	14	45%	4	0	4	26%
0338	Medical Billing Cert	31	19	61%	0	2	11	42%
0343	Bus Mgt:Hospitality Option	52	35	67%	7	3	17	52%
0344	Bus Mgt:Hospitality Cert	11	8	73%	2	1	2	45%
0349	Coding Certificate	27	20	74%	0	0	3	11%
0367	Bus Mgt:Entrepreneur Option	1	0	0%	0	0	0	0%
0372	Bus Mgt:Computer Appl Option	45	22	49%	8	4	16	62%
0379	Administrative Mgt:Travel/Tour	2	1	50%	0	1	0	50%
0506	Electronic Technology	29	16	55%	2	0	10	41%
0507	Engineering Science	63	33	52%	3	12	21	57%
0521	Computer Aided Drafting Cert	12	8	67%	2	0	4	50%
0526	CIS: Programming	47	25	53%	1	4	10	32%
0527	Electronic Tech: Biomedical	5	1	20%	3	1	1	100%
0529	Electronic Equipment Tech Cert	14	7	50%	3	1	3	50%
0535	Computer Application Cert	12	4	33%	4	0	2	50%
0536	CIS: Application & Operations	63	31	49%	12	3	2	27%
0539	Web Page Design & Dev Cert	14	6	43%	2	0	2	29%
0541	Web Page Design: Graphics Cert	11	8	73%	2	0	5	64%
0543	Computer Service Spec Cert	8	3	38%	1	0	2	38%
0544	Computer Networks Certificate	8	7	88%	2	0	3	63%
0546	Elect Tech:Computer System Opt	21	16	76%	5	2	4	52%
0548	Advanced Computer Network Cert	1	0	0%	0	0	0	0%

### NECC Student Retention Report

0549	CIS: Web Technologies	19	9	47%	2	0	0	11%
0558	Elect Tech:Comp Netwrk Eng Opt	24	16	67%	7	2	4	54%
0660	General Studies:ESL Studies	615	373	61%	0	13	237	41%
0662	Direct Support Certificate	7	2	29%	2	0	2	57%
0999	Unclassified-Majr not Declared	841	284	34%	0	159	98	31%
7144	General Studies: Paralegal	22	8	36%	0	1	2	14%
7200	General Studies: Criminal Just	1	1	100%	0	0	1	100%
7201	General Studies: Early Childhd	46	6	13%	0	3	2	11%
7209	General Studies: Pract Nursing	129	70	54%	0	2	34	28%
7212	General Studies: Radiol Tech	140	81	58%	0	2	43	32%
7213	General Studies:Nursing	519	343	66%	0	21	173	37%
7214	General Studies: Resp Care	8	5	63%	0	1	2	38%
7218	General Studies: Dental Asst	25	12	48%	0	2	6	32%
7234	General Studies:Polysomnograph	4	0	0%	0	1	0	25%
7237	General Studies:Early Child Ev	21	3	14%	0	1	0	5%
7245	General Studies: Deaf Studies	25	17	68%	0	1	9	40%
7255	General Studies: Human Svs	23	8	35%	0	1	1	9%
7260	General Studies: Medical Asst	22	6	27%	0	0	3	14%

## NECC Student Retention Report

### Fall 2003 Cohort

Students removed from cohort(s) after graduating or transferring to a 4-year college

	Fall 03 Total Students	Spring 04 Remaining Students	Retention Fall 03- Spring 04	Graduates AY 2003-2004	Transfer to 4-Year College	Fall 04 Remaining Students	Retention Fall 03-Fall 04
Overall Cohort	6,301	4,207	67%	546	467	2,720	59%
<u>Gender:</u>							
Male	2,126	1,389	65%	170	185	895	59%
Female	4,139	2,794	68%	376	281	1,809	60%
Unknown	36	24	67%	0	1	16	47%
<u>Federal Age Categories:</u>							
17 & younger	76	44	58%	2	28	25	72%
18-19	948	713	75%	12	87	491	62%
20-21	1,125	785	70%	105	120	495	64%
22-24	892	587	66%	104	72	337	58%
25-29	798	496	62%	84	54	312	56%
30-34	602	370	61%	58	23	238	53%
35-39	550	357	65%	43	31	232	56%
40-49	943	616	65%	103	43	423	60%
50-64	318	207	65%	35	8	149	60%
65 & older	17	7	41%	0	1	6	41%
Unknown	32	25	78%	0	0	12	38%
<u>Achieving the Dream Age Categories:</u>							
25 & younger	3,260	2,258	69%	254	316	1,432	61%
26 & older	3,009	1,924	64%	292	151	1,276	57%
<u>Race/Ethnicity:</u>							
American Indian	15	12	80%	2	0	7	60%
Asian	141	95	67%	11	14	62	62%
Black, non-Hispanic	228	151	66%	12	16	84	49%
<i>Total Minority (I, A, B)</i>	<i>384</i>	<i>258</i>	<i>67%</i>	<i>25</i>	<i>30</i>	<i>153</i>	<i>54%</i>
Hispanic	1,305	863	66%	70	60	589	55%
Non-Resident Alien	54	43	80%	5	3	30	70%
Unknown	330	202	61%	8	23	135	50%
White, non-Hispanic	4,228	2,841	67%	438	351	1,813	62%
<u>Credit Enrollment:</u>							
Part-Time, 11 or fewer credits	4,044	2,435	60%	274	267	1,656	54%
Full-Time, 12 or more credits	2,257	1,772	79%	272	200	1,064	68%
<u>Financial Aid:</u>							
Received Aid	2,123	1,648	78%	216	113	1,035	64%
Did Not Receive Aid	4,178	2,559	61%	330	354	1,685	57%

## NECC Student Retention Report

### Fall 2003 Cohort - by Program

Students removed from cohort(s) after graduating or transferring to a 4-year college

Program Code	Program Title	Fall 03	Spring 04	Retention Fall 03-Spring 04	Graduates AY 2003-2004	Transfer to 4-Year College	Fall 04 Remaining Students	Retention Fall 03-Fall 04
		Total Students	Remaining Students					
0000	Default	1	0	0%	0	0	0	0%
0100	Liberal Arts	529	322	61%	46	56	162	50%
0103	LA: Phys Ed/Recr Conc	43	26	60%	1	10	19	70%
0104	LA: Creative Arts Opt	15	4	27%	0	4	3	47%
0105	LA: Dance Option	14	11	79%	0	0	6	43%
0106	LA: Journal/Broad	57	40	70%	5	4	16	44%
0107	LA: Music Option	32	23	72%	1	1	8	31%
0110	LA: Earth Science	4	1	25%	0	0	0	0%
0113	LA: Theatre Option	14	8	57%	1	2	5	57%
0116	LA: Cross-Cultural	1	0	0%	0	0	0	0%
0118	LA: Int'l Relation	11	7	64%	1	0	3	36%
0119	Paralegal Studies	2	2	100%	0	0	0	0%
0121	LA: Political Science	7	4	57%	1	1	2	57%
0122	LA: History Option	19	13	68%	2	1	10	68%
0124	Paralegal Certificate	22	14	64%	4	1	11	73%
0127	LA: Physics Option	1	0	0%	0	1		100%
0128	LA: Computer Info Sci	21	12	57%	2	4	9	71%
0131	LA: Biology Option	35	22	63%	0	4	13	49%
0132	LA: Chemistry Option	8	4	50%	0	0	4	50%
0134	LA: Writing Option	17	7	41%	0	2	3	29%
0135	LA: Legal Studies Opt	12	6	50%	3	0	2	42%
0137	LA: Psychology Transfer Opt	125	77	62%	6	14	40	48%
0138	Graphic Design: Desktop Pub Ct	34	20	59%	10	0	9	56%
0139	LA: Teacher Exploration	5	3	60%	0	1	1	40%
0141	LA: Social Work Transfer Opt	24	12	50%	0	3	5	33%
0143	LA: Philosophy Option	7	5	71%	0	0	4	57%
0144	Paralegal Career Option	29	22	76%	3	1	12	55%
0145	Paralegal Transfer Option	29	23	79%	2	3	17	76%
0146	Elementary Education Cert	57	45	79%	0	2	41	75%
0147	Elementary Education (Day)	87	59	68%	5	7	35	54%
0148	Elementary Education (Evening)	12	7	58%	0	0	5	42%
0155	Dance Education Certificate	2	1	50%	0	0	0	0%
0180	General Studies	333	183	55%	16	36	86	41%
0181	Graphic Design	132	88	67%	16	11	51	59%
0182	Illustration	24	14	58%	1	0	11	50%
0185	Liberal Arts:Teacher Prep	1	1	100%	0	0	1	100%
0190	GenStu Eng.Lng Clustr Deaf HH	6	3	50%	0	0	2	33%
0191	General Studies: Visual Arts	19	14	74%	2	1	6	47%

## NECC Student Retention Report

0200	Criminal Justice	178	136	76%	21	10	84	65%
0201	Early Childhood Ed (Day)	72	42	58%	10	0	31	57%
0209	Practical Nursing	33	27	82%	3	1	2	18%
0212	Radiologic Technology	48	45	94%	18	1	21	83%
0213	Nursing (Day)	96	84	88%	31	2	46	82%
0217	Alcohol/Drug Abuse Counsel	22	14	64%	6	0	6	55%
0218	Dental Assistant Certificate	22	20	91%	18	0	2	91%
0233	Nursing (Eve)	65	57	88%	23	1	33	88%
0237	Early Childhood Ed (Eve)	27	22	81%	0	0	21	78%
0245	Deaf Studies:Sign Lg Intr Opt	30	21	70%	0	2	15	57%
0246	Deaf Studies:Sign Lg Intr Cert	15	13	87%	4	0	5	60%
0247	Deaf Studies: ASL Studies Opt	3	3	100%	0	0	1	33%
0252	Respiratory Care	35	0	0%	0	0	0	0%
0255	Human Services	23	14	61%	3	3	9	65%
0260	Medical Assistant Certificate	26	20	77%	10	0	4	54%
0262	Community Support HS Pract Ct	14	5	36%	3	2	3	57%
0290	Early Childhood Ed Certificate	4	2	50%	0	0	0	0%
0300	Accounting	142	94	66%	23	5	47	53%
0308	Business Management	250	136	54%	20	14	84	47%
0311	Business Transfer	256	165	64%	39	31	104	68%
0318	Medical Record Technology	1	0	0%	0	0	0	0%
0323	Medical Terminology &Trans Ct	35	21	60%	3	1	11	43%
0336	Health Information Technology	11	5	45%	3	0	0	27%
0338	Medical Billing Cert	44	30	68%	1	3	6	23%
0343	Bus Mgt:Hospitality Opt	45	27	60%	3	4	16	51%
0344	Bus Mgt:Hospitality Cert	16	12	75%	3	0	6	56%
0349	Coding Certificate	63	41	65%	3	1	8	19%
0352	Travel and Tourism Mgmt Cert	1	1	100%	0	0	0	0%
0366	Bus Mgt:Healthcare Practice	1	0	0%	0	0	0	0%
0367	Bus Mgt:Entrepreneur Option	1	1	100%	0	0	1	100%
0372	Bus Mgt:Computer Appl Option	48	30	63%	6	2	18	54%
0378	Administrative Mgt:Admin Asst	2	1	50%	2	0	0	100%
0379	Administrative Mgt:Travel/Tour	6	3	50%	1	0	1	33%
0506	Electronic Technology	34	24	71%	5	1	13	56%
0507	Engineering Science	77	46	60%	2	10	22	44%
0518	Comp & Info Sci PC Specialist	1	1	100%	0	0	0	0%
0521	Computer Aided Drafting Cert	16	12	75%	3	0	5	50%
0526	CIS: Programming Option	45	29	64%	3	2	13	40%
0527	Electronic Tech: Biomedical	12	10	83%	7	0	1	67%
0529	Electronic Equipment Tech Cert	22	12	55%	5	2	5	55%
0535	Computer Application Cert	30	12	40%	7	1	7	50%
0536	CIS: Application & Operations	104	62	60%	17	3	36	54%
0537	Electr Tech: Semicond Mfg Opt	1	1	100%	0	0	0	0%



## NECC Student Retention Report

0539	Web Page Design & Dev Cert	29	15	52%	5	2	7	48%
0541	Web Page Design: Graphics Cert	21	11	52%	8	1	4	62%
0543	Computer Service Spec Cert	15	7	47%	2	0	3	33%
0544	Computer Networks Certificate	19	7	37%	2	3	1	32%
0546	Elect Tech:Computer System Opt	25	16	64%	3	0	11	56%
0549	CIS: Web Technologies Opt	14	6	43%	3	0	3	43%
0557	Elect.Tech/Elec Tester Ct/ATT	2	0	0%	0	1	0	50%
0558	Elect Tech:Comp Netwrk Eng Opt	31	17	55%	4	1	10	48%
0660	General Studies:ESL Studies	557	376	68%	0	15	252	48%
0662	Comm Supp HSPrac:Dir Supp Ct	3	2	67%	3	0	0	100%
0999	Unclassified-Majr not Declared	911	317	35%	0	143	97	26%
7144	General Studies: Paralegal	15	9	60%	0	1	2	20%
7200	General Studies: Criminal Just	46	0	0%	0	4	0	9%
7201	General Studies: Early Childhd	43	21	49%	0	4	10	33%
7209	General Studies: Pract Nursing	128	79	62%	0	6	30	28%
7212	General Studies: Radiol Tech	120	73	61%	0	5	33	32%
7213	General Studies:Nursing	452	322	71%	0	25	157	40%
7214	General Studies: Resp Care	14	8	57%	0	1	2	21%
7218	General Studies: Dental Asst	22	8	36%	0	1	4	23%
7237	General Studies:Early Child Ev	14	9	64%	0	1	6	50%
7245	General Studies: Deaf Studies	17	10	59%	0	1	3	24%
7255	General Studies: Human Svs	15	3	20%	0	0	2	13%
7260	General Studies: Medical Asst	20	8	40%	0	0	1	5%

# NECC College Math Tutoring Center Results Spring 2009

The new College Math Tutoring Center at Northern Essex Community College opened its doors to students for the Spring 2009 semester. A total of 940 students enrolled in one or more college level math courses during the term, 128 of which sought math tutoring services through the Center.

The 128 students who participated in math tutoring averaged 8 total contacts with the Center, 771 contact minutes, and 13 contact hours (see Table 1).

**Table 1.**

Tutoring Activity		
# of Contacts	N	128
	Mean	8
	Median	5
	Mode	1
	Sum	1,040
Contact Minutes	N	103
	Mean	771
	Median	390
	Mode	60
	Sum	79,455
Contact Hours	N	103
	Mean	13
	Median	7
	Mode	1
	Sum	1,324

## College Math Student Profile

Although more males than females enrolled in college math courses, a slightly larger percentage of females than males accessed math tutoring services (see Table 2).

**Table 2.**

Gender	Received Tutoring		No Tutoring		Total	
	Frequency	Percent	Frequency	Percent	Frequency	Percent
Female	65	50.8%	388	47.8%	453	48.2%
Male	62	48.4%	424	52.2%	486	51.7%
Unknown	1	0.8%	0	0.0%	1	0.1%
Total	128	100.0%	812	100.0%	940	100.0%

20.3% of students who sought math tutoring were Hispanic and 5.5% were Black, non-Hispanic. The ethnic makeup of all students enrolled in college math courses included 18.5% Hispanic and 2.8% Black, non-Hispanic (see Table 3).

**Table 3.**

Ethnicity	Received Tutoring		No Tutoring		Total	
	Frequency	Percent	Frequency	Percent	Frequency	Percent
American Indian	0	0.0%	5	0.6%	5	0.5%
Asian	3	2.3%	22	2.7%	25	2.7%
Black, non-Hispanic	7	5.5%	19	2.3%	26	2.8%
Hispanic	26	20.3%	148	18.2%	174	18.5%
Non-Resident Alien	2	1.6%	3	0.4%	5	0.5%
White, non-Hispanic	79	61.7%	537	66.1%	616	65.5%
Unknown	11	8.6%	78	9.6%	89	9.5%
Total	128	100.0%	812	100.0%	940	100.0%

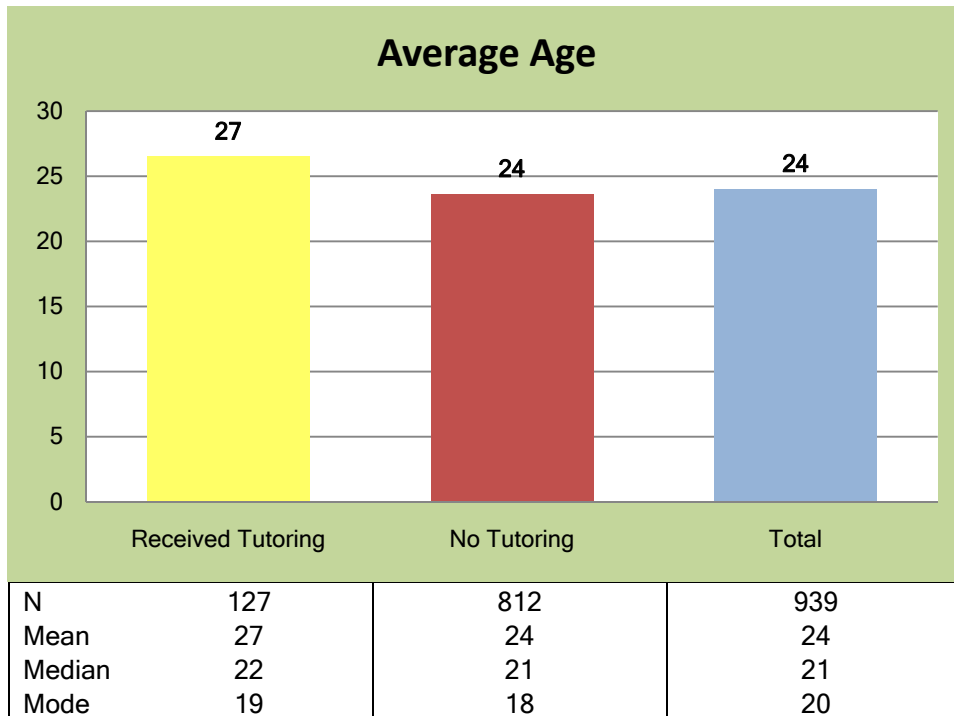
The vast majority of students accessing math tutoring services were continuing students, consistent with the overall composition of students enrolled in college math (see Table 4).

**Table 4.**

Student Status	Received Tutoring		No Tutoring		Total	
	Frequency	Percent	Frequency	Percent	Frequency	Percent
Continuing	113	88.3%	688	84.7%	801	85.2%
New	4	3.1%	51	6.3%	55	5.9%
Readmit	10	7.8%	46	5.7%	56	6.0%
Readmit Grad NECC	0	0.0%	1	0.1%	1	0.1%
Transfer	0	0.0%	17	2.1%	17	1.8%
Unknown	1	0.8%	9	1.1%	10	1.1%
Total	128	100.0%	812	100.0%	940	100.0%

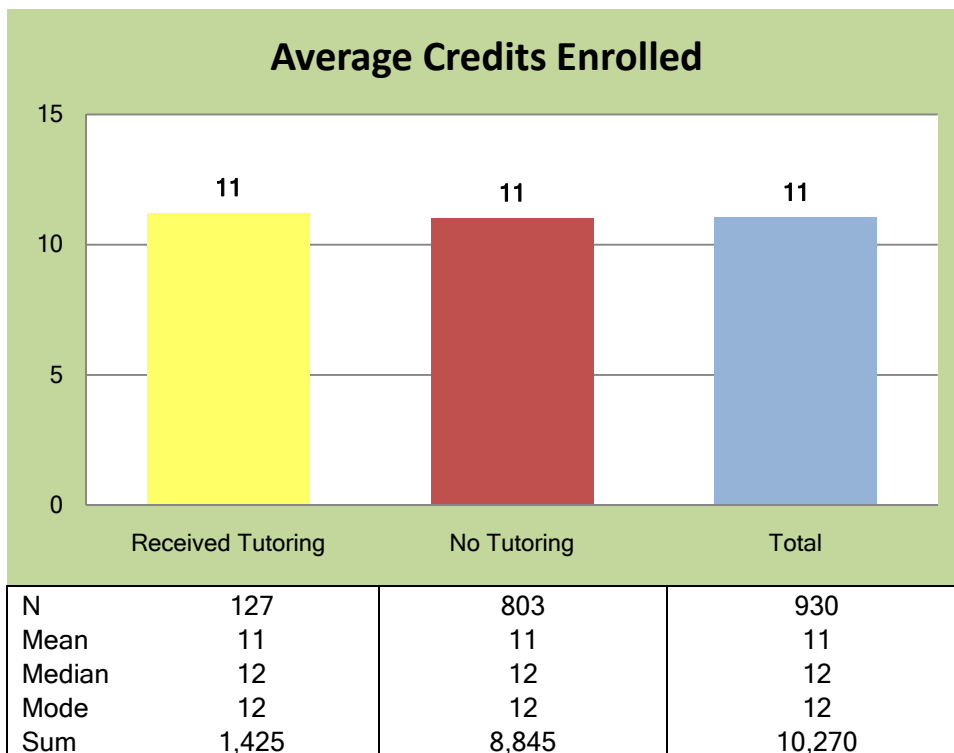
On average, students seeking math tutoring services were older than who did not (see Chart 1).

**Chart 1.**



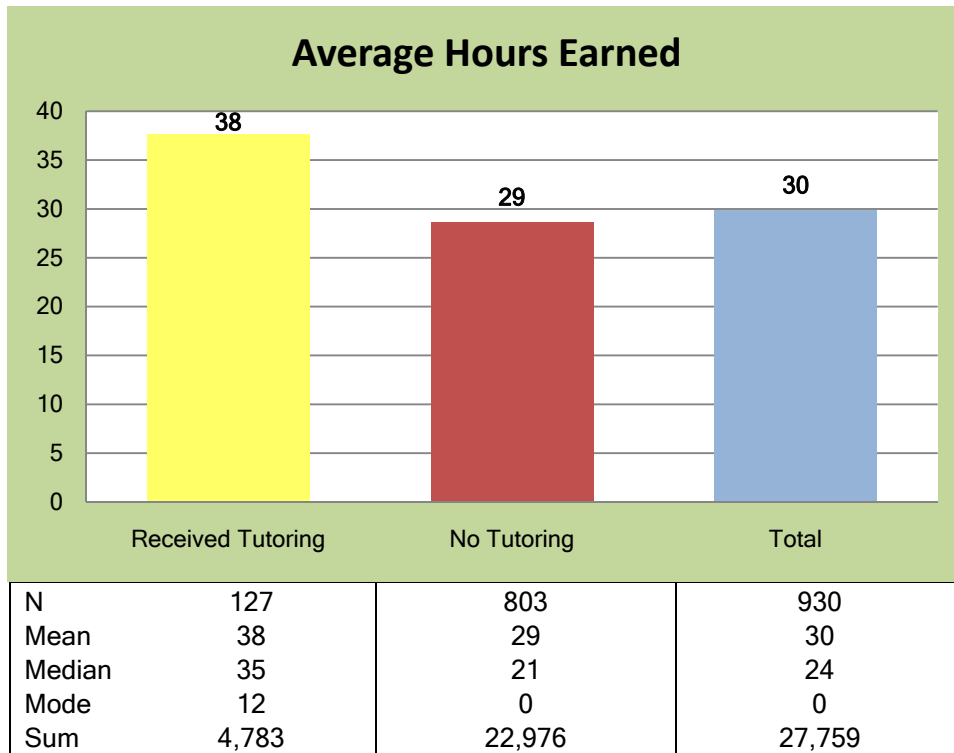
College math students were enrolled for an average of 11 credits (see Chart 2).

**Chart 2.**



Students who participated in math tutoring had earned, on average, more credit hours than those who did not seek tutoring (see Chart 3).

**Chart 3.**

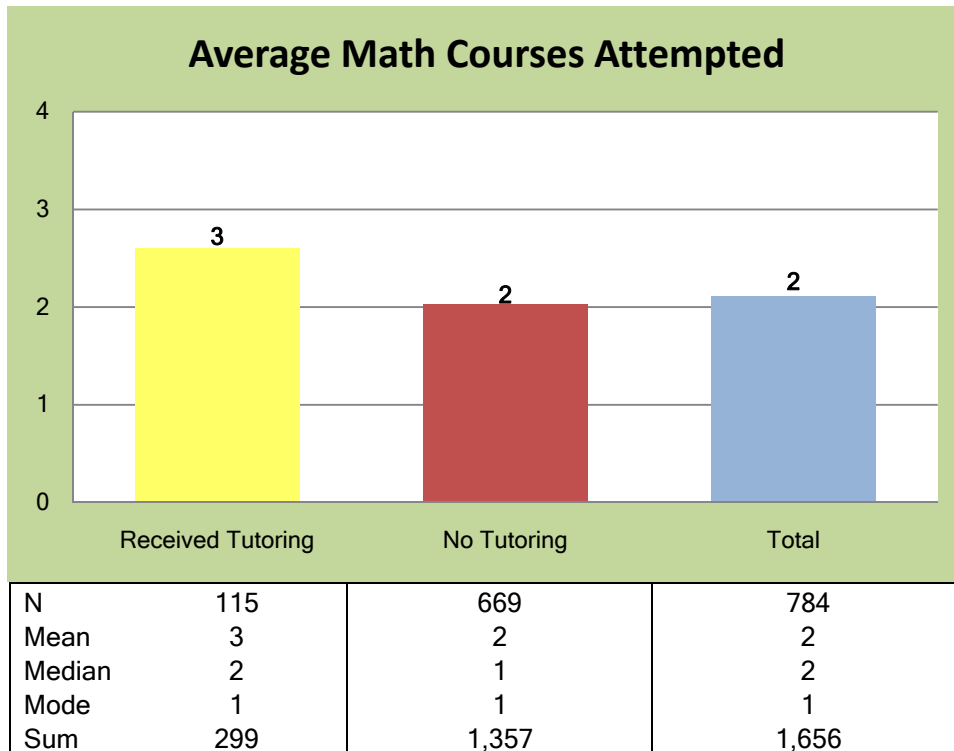


Nearly 90% of students who participated in math tutoring during Spring 2009 had attempted an average of 3 math courses at NECC prior to the Spring 2009 semester, either at the developmental or college level (see Table 5 and Chart 4).

**Table 5.**

Math Experience Prior to Spring 2009						
	Received Tutoring		No Tutoring		Total	
	Frequency	Percent	Frequency	Percent	Frequency	Percent
Any Math Attempted	115	89.8%	669	82.4%	784	83.4%
No Math Attempted	13	10.2%	143	17.6%	156	16.6%
Total	128	100.0%	812	100.0%	940	100.0%

**Chart 4.**



61.7% of students participating in math tutoring at the college level during Spring 2009 had initially assessed into developmental math (see Table 6).

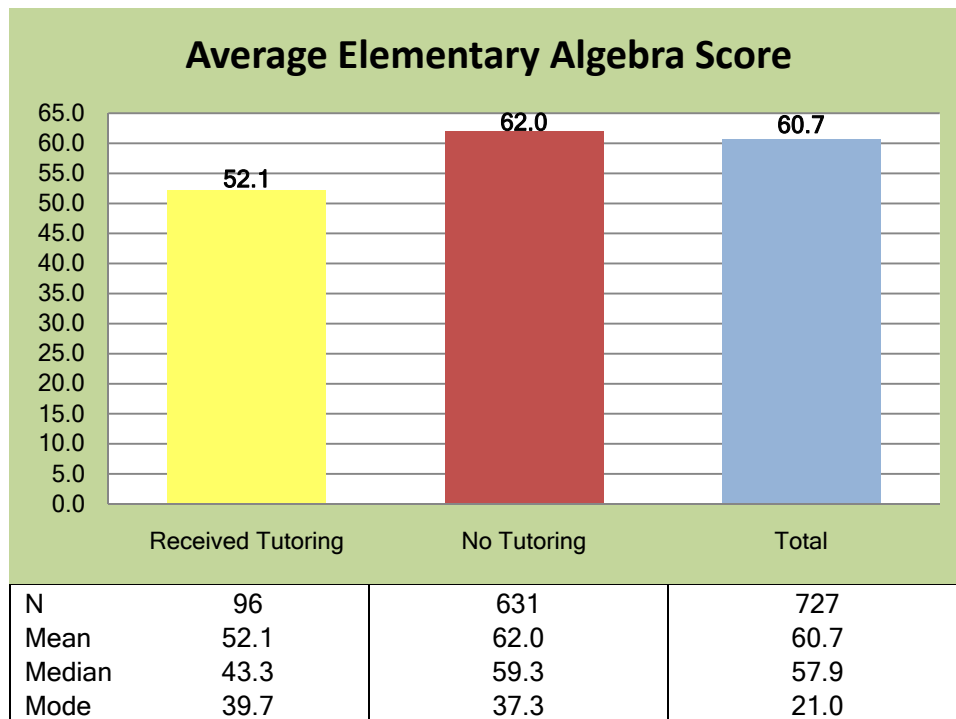
**Table 6.**

Math Placement Test Results	Received Tutoring		No Tutoring		Total	
	Frequency	Percent	Frequency	Percent	Frequency	Percent
Assessed into Developmental	79	61.7%	474	58.4%	553	58.8%
Assessed into College Level	17	13.3%	158	19.5%	175	18.6%
Unknown	32	25.0%	180	22.2%	212	22.6%
<b>Total</b>	128	100.0%	812	100.0%	940	100.0%

Note: For students who tested more than once, results from the most recent test were used.

Students who participated in college math tutoring had received a lower average Elementary Algebra test score than those who did not seek tutoring (see Chart 5).

**Chart 5.**

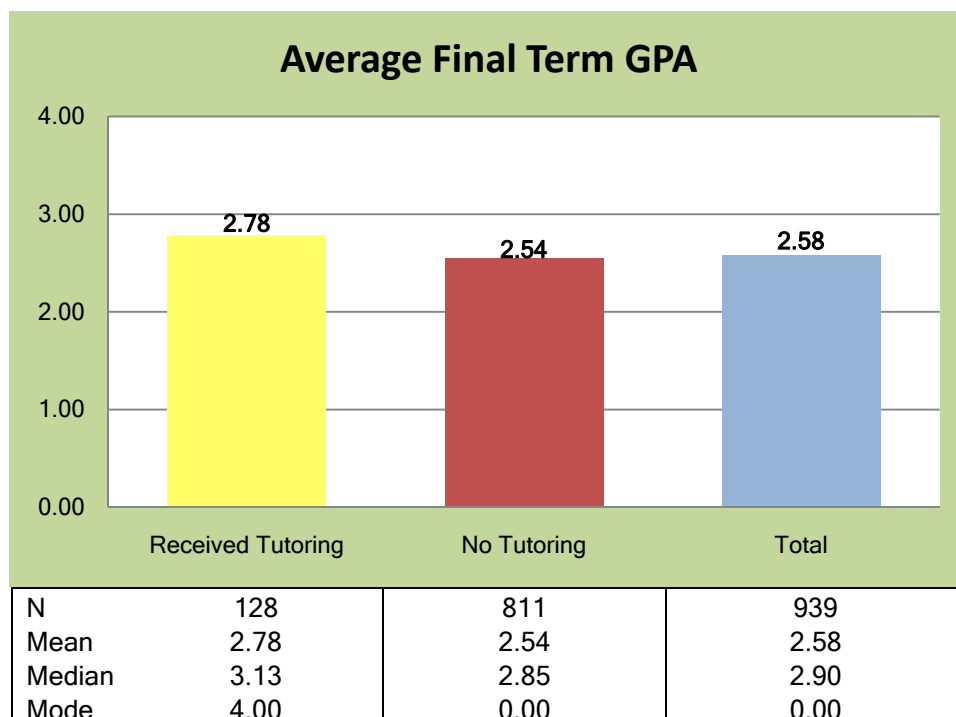


Note: For students who tested more than once, results from the most recent test were used.

### College Math Outcomes

The final GPA for the Spring 2009 term was, on average, higher for college math students who accessed tutoring services than for those who did not (see Chart 6).

**Chart 6.**



A total of 964 college math grades were distributed among 940 individual students during the Spring 2009 semester. Students seeking tutoring achieved notably higher A-C and A-D completion rates in college math than those who did not seek tutoring (see Table 7).

**Table 7.**

Final College Math Grade Distribution	Received Tutoring		No Tutoring		Total	
	Frequency	Percent	Frequency	Percent	Frequency	Percent
A	34	25.0%	149	18.0%	183	19.0%
A-	10	7.4%	46	5.6%	56	5.8%
B+	10	7.4%	50	6.0%	60	6.2%
B	12	8.8%	75	9.1%	87	9.0%
B-	8	5.9%	49	5.9%	57	5.9%
C+	7	5.1%	33	4.0%	40	4.1%
C	12	8.8%	60	7.2%	72	7.5%
C-	7	5.1%	20	2.4%	27	2.8%
D+	2	1.5%	24	2.9%	26	2.7%
D	4	2.9%	46	5.6%	50	5.2%
F	10	7.4%	40	4.8%	50	5.2%
FN	1	0.7%	24	2.9%	25	2.6%
FW	5	3.7%	25	3.0%	30	3.1%
I	2	1.5%	23	2.8%	25	2.6%
NW	10	7.4%	112	13.5%	122	12.7%
W	2	1.5%	52	6.3%	54	5.6%
Total	136	100.0%	828	100.0%	964	100.0%
A-C Completion	93	68.4%	462	55.8%	555	57.6%
A-D Completion	106	77.9%	552	66.7%	658	68.3%

### Correlation Analysis

A correlation exists when two variables are linked closely enough that knowing the values for one variable lets us predict with some accuracy the values for the second variable. Correlation does not prove causation, only that there is a relationship. While a correlation coefficient with an absolute value of 1 (-1 or +1) indicates a perfect association, an absolute value of .2 or higher is usually worth noting.

Correlation analysis was utilized to determine whether tutoring, the independent variable, influenced final college math grade, the dependent variable. The result showed a very weak tendency (.263) for students who participated in tutoring to complete college level math with a grade of A-C, and for students who did not participate in tutoring to achieve a grade lower than C, or not successfully complete college math. No association was revealed between the number of visits made to the College Math Tutoring Center and the final course grade (.093), or between the total time spent at the Center and the final course grade (.079).

Students who initially assessed into college level math strengthened the relationship between math tutoring and successful course completion from very weak to moderate (.585). The association between tutoring and A-C completion endured, but did not increase, for students who placed into developmental math (.237).

Controlling for gender, the relationship between math tutoring and A-C completion increased from very weak to weak for females only (.442). Males did not influence (.106) the relationship between tutoring and completion.



The association between tutoring and college math course completion increased from very weak to weak for students over age 25 (.429). Students age 25 or younger had no influence (.199) on the relationship between the tutoring and completion.

For full-time students the relationship between math tutoring and A-C course completion increased from very weak to weak (.320). Though the strength of association endured for part-time students (.202), it did not increase.

Controlling for ethnicity, the strength of association endured in both Majority (White non-Hispanic) and Minority (American Indian, Asian, Black non-Hispanic, and Hispanic) sub-groups without increasing appreciably in either (.275 and .297 respectively). This provides further evidence that tutoring and course completion are related, but ethnicity is not a factor.

### **Summary**

College math students who accessed tutoring services tended to be slightly older, had earned more credit hours, and had attempted more math courses prior to Spring 2009 than those who did not seek tutoring. Students who participated in tutoring had also achieved, on average, a lower Elementary Algebra score at the time of assessment than those who did not seek tutoring.

There were positive outcomes for college math students who sought tutoring. Those students achieved a higher average term GPA and higher course completion rates in college math than students who did not seek tutoring. An association between math tutoring and successful course completion was revealed through higher level analysis; the association increased for students who assessed into college level math, females, students over age 25, and students enrolled full-time.

Further study might include the calculation of retention rates from Spring 2009 to Fall 2009 for college math students who participated in tutoring versus those who did not. In addition, the development of regression models would reveal whether certain combinations of independent variables help predict and/or explain college math outcomes.