

**JUNE 2013 HAWAI'I PUBLIC HIGH SCHOOL GRADUATES  
ENROLLED IN ENGLISH AND MATHEMATICS CLASSES  
AT THE  
UNIVERSITY OF HAWAI'I IN FALL 2013**

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**JUNE 2013 HAWAI'I PUBLIC HIGH SCHOOL GRADUATES  
ENROLLED IN COLLEGE, REMEDIAL AND/OR DEVELOPMENTAL  
ENGLISH AND MATHEMATICS CLASSES  
AT THE  
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## **June 2013 Hawai'i Public High School Graduates Enrolled in English and Mathematics Classes at the University of Hawai'i in Fall 2013**

The focus of this analysis is the unduplicated headcount of Hawai'i public high school graduates enrolled in remedial, developmental or "college level" English and mathematics courses at any of the ten campuses within the University of Hawai'i (UH) System. Some students take more than one English class and more than one mathematics class, particularly at the remedial level. Hence, the headcount method counts each student only once and at the lowest level enrolled course. This method is also a "snapshot" or point-in-time analysis for the Fall 2013 semester, and looks at recent Hawai'i State Department of Education (DOE) high school graduates who enrolled at a UH campus the immediate fall semester following high school graduation (Class of 2013 graduates).

The UH faculty makes a distinction between remedial and developmental coursework. Remedial coursework covers the basic foundational knowledge that underlies literacy and numeracy skills. Developmental coursework prepares students for college-level or credit bearing courses, generally towards their degree or certificate requirements. Across the UH System, "college level" courses are generally numbered 100 or above. Courses that do not fit the remedial or developmental definition and in some instances are numbered less than 100 may be used satisfy general education, degree, or certificate requirements. For the purposes of this report, these courses are categorized as "Other".

English and mathematics are also considered "gateway" courses at the University of Hawai'i, and are required by almost every degree and/or certificate the University offers. Gateway courses introduce students to the discipline of college, and at times, of a major. Many studies advocate the importance of students completing their gateway courses early in their college years. These studies suggest that students who enroll and complete their gateway courses immediately upon entering college are more likely to graduate and successfully earn their college degree than those who defer taking these courses.

Of the 11,261 June 2013 Hawai'i public high school graduates, 4,258 enrolled at the University of Hawai'i in Fall 2013<sup>1</sup>:

This year we added a new category called "College Credit Earned While in High School". This category accounts for students who have earned college credit prior to fall as a first-time freshman. Credits may have been earned from UH via dual credit, exams such as Advanced Placement or International Baccalaureate, or earned in the summer after high school graduation.

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<sup>1</sup> Fall 2013 enrollment numbers based on individuals matched to DOE Class of 2013 completers.

Note: Students who earned college credit prior to Fall 2013 may or may not be enrolled in a English or Math course in Fall 2013.

## ENGLISH COURSES

- College Credit Earned While in High School was added this year and numbers for previous years are not available.
- For Fall 2013, 188 or 4.4% earned college credit for English while in high school.
- For Fall 2013, 1,728 or 40.6% enrolled in college level (course numbers  $\geq 100$ ) English courses. This is a decrease of 1 percentage point over the enrollment of high school graduates in Fall 2012.
- The percentage of students enrolling into remedial or developmental English classes for Fall 2013, remained the same as Fall 2012 at 30.8%.
- The percentage of students who enrolled in remedial English increased from Fall 2012 while the percentage enrolling in developmental English decreased.
  - Remedial English
    - Fall 2012: 280 (or 8.4%) of 3,334 students enrolled in English
    - Fall 2013: 365 (or 11.4%) of 3,193 students enrolled in English
  - Developmental English
    - Fall 2012: 1,077 (or 32.3%) of 3,334 students enrolled in English
    - Fall 2013: 946 (or 29.6%) of 3,193 students enrolled in English
- For Fall 2013, 877 or 20.6% did not enroll in English, showing decrease over Fall 2012 by 3.7 percentage points. It is unknown into which category these students would have placed; remedial, developmental, or college level.

## MATHEMATICS COURSES

- College Credit Earned While in High School was added this year and numbers for previous years are not available.
- For Fall 2013, 53 or 1.2% earned college credit for math while in high school.
- For Fall 2013, 1,138 or 26.7% of high school graduates enrolled into college level mathematics courses, which shows an increase of 2.9 percentage points over Fall 2012.

- Of the 2,689 students enrolled in math, the overall percentage of students that enrolled in remedial or developmental courses showed a decrease over Fall 2012 by a total of 6.4 percentage points.
  - Remedial Mathematics
    - Fall 2012: 591 (or 20.9%) of 2,831 students enrolled in math
    - Fall 2013: 553 (or 20.6%) of 2,689 students enrolled in math
  - Developmental Mathematics
    - Fall 2012: 1,002 (or 35.4%) of 2,831 students enrolled in math
    - Fall 2013: 789 (or 29.3%) of 2,689 students enrolled in math
- For Fall 2013, 1,516 or 35.6% did not enroll in mathematics, a slight decrease in enrollment over Fall 2012. It is unknown which category these students would have placed; remedial, developmental, or college level.

Tables 2 and 5 show headcounts and percentages sorted alphabetically by Hawai'i public high schools. These are horizontal percentages, which is calculated by dividing the high school's category headcount (i.e. remedial, development, enrolled, not enrolled) by the high school's total headcount of graduates.

Tables 3 and 6 show headcounts and percentages of student course taking by the students' "home" campus within the University of Hawai'i system. These are also horizontal percentages, which are calculated by dividing the campus's category headcount (i.e. remedial, developmental, enrolled, and not enrolled) by the campus's total enrollment headcount.

TABLE 1  
June 2013 Hawai'i Public High School Graduates  
Enrolled Headcount in English Classes at the University of Hawai'i By Course Category 1/  
Fall 2009 - Fall 2013

	FALL 2009		FALL 2010		FALL 2011		FALL 2012		FALL 2013	
	TOTAL	V %	TOTAL	V %	TOTAL	V %	TOTAL	V %	TOTAL	V %
<b>Public HS Graduates Enrolled at UH</b>	<b>4,590</b>		<b>4,232</b>		<b>4,384</b>		<b>4,407</b>		<b>4,258</b>	
<b>Not Enrolled in English</b>	<b>1,196</b>	<b>26.1</b>	<b>1,024</b>	<b>24.2</b>	<b>1,062</b>	<b>24.2</b>	<b>1,073</b>	<b>24.3</b>	<b>877</b>	<b>20.6</b>
<b>College Credit Earned While in High School 2/</b>									<b>188</b>	<b>4.4</b>
<b>Enrolled in English</b>	<b>3,394</b>	<b>73.9</b>	<b>3,208</b>	<b>75.8</b>	<b>3,322</b>	<b>75.8</b>	<b>3,334</b>	<b>75.7</b>	<b>3,193</b>	<b>75.0</b>
<b>Remedial / Developmental 3/</b>	<b>1,605</b>	<b>35.0</b>	<b>1,526</b>	<b>36.1</b>	<b>1,507</b>	<b>34.4</b>	<b>1,357</b>	<b>30.8</b>	<b>1,311</b>	<b>30.8</b>
Remedial	392	8.5	353	8.3	320	7.3	280	6.4	365	8.6
Developmental	1,213	26.4	1,173	27.7	1,187	27.1	1,077	24.4	946	22.2
<b>College Level 4/</b>	<b>1,620</b>	<b>35.3</b>	<b>1,532</b>	<b>36.2</b>	<b>1,686</b>	<b>38.5</b>	<b>1,833</b>	<b>41.6</b>	<b>1,728</b>	<b>40.6</b>
Business or Technical Writing	1	0.0	3	0.1	4	0.1			3	0.1
Composition I	1,601	34.9	1,503	35.5	1,664	38.0	1,804	40.9	1,707	40.1
Composition II	1	0.0	1	0.0	4	0.1	8	0.2	9	0.2
Creative Writing	1	0.0	7	0.2	1	0.0	2	0.0	2	0.0
Literature	16	0.3	18	0.4	13	0.3	19	0.4	7	0.2
<b>Other 5/</b>	<b>74</b>	<b>1.6</b>	<b>79</b>	<b>1.9</b>	<b>70</b>	<b>1.6</b>	<b>61</b>	<b>1.4</b>	<b>52</b>	<b>1.2</b>
College Reading Skills	37	0.8	42	1.0	35	0.8	44	1.0	19	0.4
Career/Technical	37	0.8	37	0.9	35	0.8	17	0.4	33	0.8
<b>Other ESL 6/</b>	<b>95</b>	<b>2.1</b>	<b>71</b>	<b>1.7</b>	<b>59</b>	<b>1.3</b>	<b>83</b>	<b>1.9</b>	<b>102</b>	<b>2.4</b>

Notes: V% (vertical percentage) = percentage of the total headcount of the Public High School Graduates at UH per fall semester.

1/ Unduplicated headcount of Hawai'i public high school graduates enrolled in a English course. If the student is registered in more than one English class, s/he is counted in the lower level course only.

2/ Newly added category accounts for college credit earned prior to fall, such as credits earned from UH via dual credit, or Advanced Placement or International Baccalaureate exams, or in the first summer after high school graduation.

3/ All remedial and developmental classes were offered at the University of Hawai'i Community Colleges. The 4-year campuses at Mānoa, Hilo, and West O'ahu do not offer remedial or developmental classes. Students enrolled at the 4-year campuses are dual enrolled at a community college in order to take remedial and/or developmental coursework. Remedial and developmental classes were identified according to "Remedial and Developmental Education in the University of Hawai'i Community College System, White paper Group Committee, UHCC," no publication date noted, p. 137, as well as in consultation with the Office of Academic Planning, Assessment and Policy Analysis, UHCC.

4/ College Level courses refer to English courses that are 100-level and above.

5/ Other courses refer to courses that satisfy general education requirements and in some instances are numbered less than 100 but are not classified as either remedial or developmental. These courses may be used to fulfill a degree or certificate requirement.

6/ Other ESL courses refer to English as a Second Language courses numbered less than 100, and are equivalent to remedial/developmental English.

TABLE 2  
 June 2013 Hawai'i Public High School Graduates  
 Enrolled Headcount in English Classes at the University of Hawai'i in Fall 2013 (by High School) 1/

High School	Total	Not Enrolled in English		College Credit Earned While in High School 2/		Enrolled in English													
						Enrolled in English Total		Remedial / Developmental 3/						College Level 4/		Other 5/		Other ESL 6/	
								Rem/Dev Total		Remedial		Develop-mental							
Hct	H%	Hct	H%	Hct	H%	Hct	H%	Hct	H%	Hct	H%	Hct	H%	Hct	H%	Hct	H%		
<b>State Total</b>	<b>4,258</b>	<b>877</b>	<b>20.6</b>	<b>188</b>	<b>4.4</b>	<b>3,193</b>	<b>75.0</b>	<b>1,311</b>	<b>30.8</b>	<b>365</b>	<b>8.6</b>	<b>946</b>	<b>22.2</b>	<b>1,728</b>	<b>40.6</b>	<b>52</b>	<b>1.2</b>	<b>102</b>	<b>2.4</b>
'Aiea High School	81	15	18.5	3	3.7	63	77.8	26	32.1	9	11.1	17	21.0	35	43.2			2	2.5
Baldwin High School	128	31	24.2	6	24.2	91	71.1	42	32.8	11	8.6	31	24.2	48	37.5	1	0.8		
Campbell High School	196	33	16.8	7	16.8	156	79.6	73	37.2	17	8.7	56	28.6	81	41.3			2	1.0
Castle High School	119	21	17.6	4	17.6	94	79.0	41	34.5	10	8.4	31	26.1	52	43.7	1	0.8		
Connections Charter	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Farrington High School	196	31	15.8	7	15.8	158	80.6	72	36.7	19	9.7	53	27.0	78	39.8	3	1.5	5	2.6
Hakipu'u Learning Center PCS	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Hālau Kū Māna PCS	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Hālau Lōkahi PCS	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Hāna High School	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Hawai'i Academy of Arts and Sci	10	5	50.0		50.0	5	50.0	3	30.0	2	20.0	1	10.0			2	20.0		
Hawai'i Sch. for the Deaf & the Blind	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Hawai'i Technology Academy PCS	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Hilo High School	120	38	31.7	4	31.7	78	65.0	41	34.2	14	11.7	27	22.5	28	23.3	8	6.7	1	0.8
Honoka'a High School	26	4	15.4		15.4	22	84.6	12	46.2	7	26.9	5	19.2	9	34.6	1	3.8		
Kahuku High School	42	8	19.0	1	19.0	33	78.6	18	42.9	4	9.5	14	33.3	14	33.3			1	2.4
Kailua High School	53	16	30.2		30.2	37	69.8	17	32.1	6	11.3	11	20.8	20	37.7				
Kaimukī High School	95	20	21.1	5	21.1	70	73.7	31	32.6	5	5.3	26	27.4	30	31.6			9	9.5
Kaiser High School	125	26	20.8	15	20.8	84	67.2	19	15.2	2	1.6	17	13.6	63	50.4	1	0.8	1	0.8
Kalaheo High School	66	18	27.3	2	27.3	46	69.7	15	22.7	4	6.1	11	16.7	30	45.5			1	1.5
Kalani High School	170	34	20.0	7	20.0	129	75.9	35	20.6			35	20.6	90	52.9			4	2.4
Kanu 'O Ka 'Aina PCS	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Kanuikapono Learning Center PCS	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Kapa'a High School	70	29	41.4		41.4	41	58.6	21	30.0	8	11.4	13	18.6	20	28.6				
Kapolei High School	158	20	12.7	7	12.7	131	82.9	49	31.0	9	5.7	40	25.3	76	48.1	1	0.6	5	3.2





	Total	Not Enrolled in English		College Credit Earned While in High School 2/		Enrolled in English														
						Enrolled in English Total		Remedial / Developmental 3/						College Level 4/		Other 5/		Other ESL 6/		
								Rem/Dev Total		Remedial		Developmental								
High School		Hct	H%	Hct	H%	Hct	H%	Hct	H%	Hct	H%	Hct	H%	Hct	H%	Hct	H%			
<b>State Total</b>	<b>4,258</b>	<b>877</b>	<b>20.6</b>	<b>188</b>	<b>4.4</b>	<b>3,193</b>	<b>75.0</b>	<b>1,311</b>	<b>30.8</b>	<b>365</b>	<b>8.6</b>	<b>946</b>	<b>22.2</b>	<b>1,728</b>	<b>40.6</b>	<b>52</b>	<b>1.2</b>	<b>102</b>	<b>2.4</b>	
Pāhoa High School	35	3	8.6		8.6	32	91.4	20	57.1	8	22.9	12	34.3	8	22.9			4	11.4	
Pearl City High School	168	35	20.8	4	20.8	129	76.8	50	29.8	17	10.1	33	19.6	74	44.0			5	3.0	
Radford High School	89	14	15.7	2	15.7	73	82.0	31	34.8	7	7.9	24	27.0	39	43.8			3	3.4	
Roosevelt High School	164	45	27.4	13	27.4	106	64.6	26	15.9	1	0.6	25	15.2	71	43.3	1	0.6	8	4.9	
University Laboratory School	22	9	40.9	1	40.9	12	54.5							12	54.5					
Waiākea High School	118	33	28.0	7	28.0	78	66.1	29	24.6	13	11.0	16	13.6	44	37.3	4	3.4	1	0.8	
Waialua High School	38	6	15.8		15.8	32	84.2	12	31.6	4	10.5	8	21.1	20	52.6					
Wai'anae High School	97	10	10.3		10.3	87	89.7	59	60.8	15	15.5	44	45.4	25	25.8			3	3.1	
Waimea High School	71	13	18.3		18.3	58	81.7	32	45.1	10	14.1	22	31.0	25	35.2	1	1.4			
Waipahu High School	167	19	11.4	2	11.4	146	87.4	63	37.7	17	10.2	46	27.5	73	43.7			10	6.0	
West Hawai'i Explorations Acad. PCS	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

Notes: H% (horizontal percentage) = percentage headcount of the high school's Total number of graduates enrolled at a UH campus.

1/ Unduplicated headcount of Hawai'i public high school graduates enrolled in a English course. If the student is registered in more than one English class, s/he is counted in the lower level course only.

2/ All remedial and developmental classes were offered at the University of Hawai'i Community Colleges. The 4-year campuses at Mānoa, Hilo, and West O'ahu do not offer remedial or developmental classes. Students enrolled at the 4-year campuses are dual enrolled at a community college in order to take remedial and/or developmental coursework. Remedial and developmental classes were identified according to "Remedial and Developmental Education in the University of Hawai'i Community College System, White paper Group Committee, UHCC," no publication date noted, p. 137, as well as in consultation with the Office of Academic Planning, Assessment and Policy Analysis, UHCC.

3/ Newly added category accounts for college credit earned prior to fall, such as credits earned from UH via dual credit, or Advanced Placement or International Baccalaureate exams, or in the first summer after high school graduation.

4/ College Level courses refer to English courses that are 100-level and above.

5/ Other courses refer to courses that satisfy general education requirements and in some instances are numbered less than 100 but are not classified as either remedial or developmental. These courses may be used to fulfill a degree or certificate requirement.

6/ Other ESL courses refer to English as a Second Language courses numbered less than 100, and are equivalent to remedial/developmental English.

TABLE 3  
 June 2013 Hawai'i Public High School Graduates  
 Fall 2013 Enrolled Headcount in English Classes 1/  
 University of Hawai'i, by the Students' Home Campus

College Campus	Total	Not Enrolled in English		College Credit Earned While in High School 2/		Enrolled in English													
						Enrolled in English Total		Remedial / Developmental 3/						College Level 4/		Other 5/		Other ESL 6/	
								Rem/Dev Total		Remedial		Develop-mental							
Hct	H%	Hct	H%	Hct	H%	Hct	H%	Hct	H%	Hct	H%	Hct	H%	Hct	H%	Hct	H%		
<b>State Total</b>	<b>4,258</b>	<b>877</b>	<b>20.6</b>	<b>188</b>	<b>4.4</b>	<b>3,193</b>	<b>72.6</b>	<b>1,311</b>	<b>30.8</b>	<b>365</b>	<b>8.6</b>	<b>946</b>	<b>22.2</b>	<b>1,728</b>	<b>40.6</b>	<b>52</b>	<b>1.2</b>	<b>102</b>	<b>2.4</b>
<b>4-Year Campuses</b>	<b>1,295</b>	<b>430</b>	<b>33.2</b>	<b>136</b>	<b>10.5</b>	<b>729</b>	<b>55.8</b>	<b>34</b>	<b>2.6</b>	<b>2</b>	<b>0.2</b>	<b>32</b>	<b>2.5</b>	<b>687</b>	<b>53.1</b>	<b>1</b>	<b>0.1</b>	<b>7</b>	<b>0.5</b>
UH-Manoa	853	332	38.9	119	14.0	402	46.4							396	46.4			6	0.7
UH-Hilo	220	87	39.5	17	7.7	116	52.3							114	51.8	1	0.5	1	0.5
UH-West Oahu	222	11	5.0			211	95.0	34	15.3	2	0.9	32	14.4	177	79.7				
<b>UH Community College System</b>	<b>2,963</b>	<b>447</b>	<b>15.1</b>	<b>52</b>	<b>1.8</b>	<b>2,464</b>	<b>80.0</b>	<b>1,277</b>	<b>43.1</b>	<b>363</b>	<b>12.3</b>	<b>914</b>	<b>30.8</b>	<b>1,041</b>	<b>35.1</b>	<b>51</b>	<b>1.7</b>	<b>95</b>	<b>3.2</b>
Hawai'i Community College	371	78	21.0	7	1.9	286	75.7	191	51.5	76	20.5	115	31.0	62	16.7	28	7.5	5	1.3
Honolulu Community College	378	52	13.8	6	1.6	320	80.7	156	41.3	76	20.1	80	21.2	130	34.4	19	5.0	15	4.0
Kapi'olani Community College	670	67	10.0	16	2.4	587	81.3	227	33.9	2	0.3	225	33.6	318	47.5			42	6.3
Kaua'i Community College	213	66	31.0			147	69.0	80	37.6	24	11.3	56	26.3	67	31.5				
Leeward Community College	753	87	11.6	3	0.4	663	83.7	392	52.1	94	12.5	298	39.6	238	31.6			33	4.4
Maui College	388	64	16.5	19	4.9	305	78.6	162	41.8	70	18.0	92	23.7	139	35.8	4	1.0		
Windward Community College	190	33	17.4	1	0.5	156	82.1	69	36.3	21	11.1	48	25.3	87	45.8				

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- 2/ Newly added category accounts for college credit earned prior to fall, such as credits earned from UH via dual credit, or Advanced Placement or International Baccalaureate exams, or in the
- 3/ All remedial and developmental classes were offered at the University of Hawai'i Community Colleges. The 4-year campuses at Mānoa, Hilo, and West O'ahu do not offer remedial or developmental classes. Students enrolled at the 4-year campuses are dual enrolled at a community college in order to take remedial and/or developmental coursework. Remedial and developmental classes were identified according to "Remedial and Developmental Education in the University of Hawai'i Community College System, White paper Group Committee, UHCC," no publication date noted, p. 137, as well as in consultation with the Office of Academic Planning, Assessment and Policy Analysis, UHCC.
- 4/ College Level courses refer to English courses that are 100-level and above.
- 5/ Other courses refer to courses that satisfy general education requirements and in some instances are numbered less than 100 but are not classified as either remedial or developmental. These courses may be used to fulfill a degree or certificate requirement.
- 6/ Other ESL courses refer to English as a Second Language courses numbered less than 100, and are equivalent to remedial/developmental English.

TABLE 4  
June 2013 Hawai'i Public High School Graduates  
Enrolled Headcount in Mathematics Classes at the University of Hawai'i By Course Category 1/  
Fall 2009 - Fall 2013

	FALL 2009		FALL 2010		FALL 2011		FALL 2012		FALL 2013	
	TOTAL	V %	TOTAL	V %	TOTAL	V %	TOTAL	V %	TOTAL	V %
<b>Public HS Graduates Enrolled at UH</b>	<b>4,590</b>		<b>4,232</b>		<b>4,384</b>		<b>4,407</b>		<b>4,258</b>	
<b>Not Enrolled in Math</b>	<b>1,773</b>	<b>38.6</b>	<b>1,617</b>	<b>38.2</b>	<b>1,690</b>	<b>38.5</b>	<b>1,576</b>	<b>35.8</b>	<b>1,516</b>	<b>35.6</b>
<b>College Credit Earned While   in High School 2/</b>									<b>53</b>	<b>1.2</b>
<b>Enrolled in Math</b>	<b>2,817</b>	<b>61.4</b>	<b>2,615</b>	<b>61.8</b>	<b>2,694</b>	<b>61.5</b>	<b>2,831</b>	<b>64.2</b>	<b>2,689</b>	<b>63.2</b>
<b>Remedial / Developmental 3/</b>	<b>1,734</b>	<b>37.8</b>	<b>1,516</b>	<b>35.8</b>	<b>1,562</b>	<b>35.6</b>	<b>1,593</b>	<b>36.1</b>	<b>1,342</b>	<b>31.5</b>
Remedial	473	10.3	522	12.3	672	15.3	591	13.4	553	13.0
Developmental	1,261	27.5	994	23.5	890	20.3	1,002	22.7	789	18.5
<b>College Level 4/</b>	<b>812</b>	<b>17.7</b>	<b>856</b>	<b>20.2</b>	<b>883</b>	<b>20.1</b>	<b>1,049</b>	<b>23.8</b>	<b>1,138</b>	<b>26.7</b>
Survey of Math	213	4.6	273	6.5	251	5.7	268	6.1	267	6.3
College Algebra	155	3.4	183	4.3	164	3.7	165	3.7	248	5.8
Pre-Calculus	206	4.5	209	4.9	239	5.5	304	6.9	289	6.8
Calculus or Higher	232	5.1	183	4.3	218	5.0	305	6.9	330	7.8
Statistics	5	0.1	8	0.2	11	0.3	6	0.1	2	0.0
Math for Veterinary Assistants	1	0.0		0.0		0.0	1	0.0	2	0.0
<b>Other 5/</b>	<b>271</b>	<b>5.9</b>	<b>243</b>	<b>5.7</b>	<b>249</b>	<b>5.7</b>	<b>189</b>	<b>4.3</b>	<b>209</b>	<b>4.9</b>
Career/Technical Math	151	3.3	152	3.6	142	3.2	118	2.7	93	2.2
Other College Math	120	2.6	91	2.2	107	2.4	71	1.6	116	2.7

Notes: V% (vertical percentage) = percentage of the total headcount of the Public High School Graduates at UH per fall semester.

1/ Unduplicated headcount of Hawai'i public high school graduates enrolled in a Math course. If the student is registered in more than one Math class, s/he is counted in the lower level course only.

2/ Newly added category accounts for college credit earned prior to fall, such as credits earned from UH via dual credit, or Advanced Placement or International Baccalaureate exams, or in the first summer after high school graduation.

3/ All remedial and developmental classes were offered at the University of Hawai'i Community Colleges. The 4-year campuses at Mānoa, Hilo, and West O'ahu do not offer remedial or developmental classes. Students enrolled at the 4-year campuses are dual enrolled at a community college in order to take remedial and/or development coursework. Remedial and developmental classes were identified according to "Remedial and Developmental Education in the University of Hawai'i Community College System, White paper Group Committee, UHCC," no publication date noted, p. 137, as well as in consultation with the Office of Academic Planning, Assessment and Policy Analysis, UHCC.

4/ College Level courses refer to Math courses that are 100-level and above.

5/ Other courses refer to courses that satisfy general education requirements and in some instances are numbered less than 100 but are not classified as either remedial or developmental. These courses may be used to fulfill a degree or certificate requirement.

TABLE 5  
 June 2013 Hawai'i Public High School Graduates  
 Enrolled Headcount in Mathematics Classes at the University of Hawai'i in Fall 2013 (by High School) 1/

High School	Total	Not Enrolled in English		College Credit Earned While in High School 2/		Enrolled in Math											
						Enrolled in Math Total		Remedial / Developmental 3/				College Level 4/		Other 5/			
								Rem/Dev Total		Remedial						Develop-mental	
Hct	H%	Hct	H%	Hct	H%	Hct	H%	Hct	H%	Hct	H%	Hct	H%	Hct	H%		
<b>State Total</b>	<b>4,258</b>	<b>1,516</b>	<b>35.6</b>	<b>53</b>	<b>1.2</b>	<b>2,689</b>	<b>63.2</b>	<b>1,342</b>	<b>31.5</b>	<b>553</b>	<b>13.0</b>	<b>789</b>	<b>18.5</b>	<b>1,138</b>	<b>26.7</b>	<b>209</b>	<b>4.9</b>
'Aiea High School	81	25	30.9			56	69.1	28	34.6	13	16.0	15	18.5	22	27.2	6	7.4
Baldwin High School	128	59	46.1	1	0.8	68	53.1	30	23.4	16	12.5	14	10.9	31	24.2	7	5.5
Campbell High School	196	82	41.8			114	58.2	56	28.6	26	13.3	30	15.3	53	27.0	5	2.6
Castle High School	119	24	20.2	4	3.4	91	76.5	51	42.9	13	10.9	38	31.9	34	28.6	6	5.0
Connections Charter	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Farrington High School	196	50	25.5	1	0.5	145	74.0	97	49.5	16	8.2	81	41.3	43	21.9	5	2.6
Hakipu'u Learning Center PCS	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Hālau Kū Māna PCS	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Hālau Lōkahi PCS	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Hāna High School	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Hawai'i Academy of Arts and Sci	10	5	50.0			5	50.0	1	10.0	1	50.0			2	20.0	2	20.0
Hawai'i Sch. for the Deaf & the Blind	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Hawai'i Technology Academy PCS	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Hilo High School	120	45	37.5	2	1.7	73	60.8	43	35.8	27	22.5	16	13.3	26	21.7	4	3.3
Honoka'a High School	26	8	30.8			18	69.2	12	46.2	9	34.6	3	11.5	4	15.4	2	7.7
Kahuku High School	42	21	50.0			21	50.0	13	31.0	5	11.9	8	19.0	7	16.7	1	2.4
Kailua High School	53	20	37.7			33	62.3	18	34.0	12	22.6	6	11.3	12	22.6	3	5.7
Kaimukī High School	95	36	37.9	1	1.1	58	61.1	30	31.6	4	4.2	26	27.4	25	26.3	3	3.2
Kaiser High School	125	36	28.8	2	1.6	87	69.6	32	25.6	3	2.4	29	23.2	48	38.4	7	5.6
Kalaheo High School	66	17	25.8	1	1.5	48	72.7	24	36.4	4	6.1	20	30.3	23	34.8	1	1.5
Kalani High School	170	49	28.8	5	2.9	116	68.2	50	29.4	1	0.6	49	28.8	60	35.3	6	3.5
Kanu 'O Ka 'Aina PCS	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Kanuikapono Learning Center PCS	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Kapa'a High School	70	28	40.0	5	7.1	37	52.9	19	27.1	6	8.6	13	18.6	14	20.0	4	5.7

	Total	Not Enrolled in English		College Credit Earned While in High School 2/		Enrolled in Math											
						Enrolled in Math Total		Remedial / Developmental 3/						College Level 4/		Other 5/	
								Rem/Dev Total		Remedial		Developmental					
						Hct	H%	Hct	H%	Hct	H%	Hct	H%	Hct	H%	Hct	H%
High School		Hct	H%	Hct	H%	Hct	H%	Hct	H%	Hct	H%	Hct	H%	Hct	H%	Hct	H%
<b>State Total</b>	<b>4,258</b>	<b>1,516</b>	<b>35.6</b>	<b>53</b>	<b>1.2</b>	<b>2,689</b>	<b>63.2</b>	<b>1,342</b>	<b>31.5</b>	<b>553</b>	<b>13.0</b>	<b>789</b>	<b>18.5</b>	<b>1,138</b>	<b>26.7</b>	<b>209</b>	<b>4.9</b>
Kapolei High School	158	52	32.9			106	67.1	54	34.2	26	16.5	28	17.7	41	25.9	11	7.0
Ka'u High School	30	14	46.7	1	3.3	15	50.0	7	23.3	5	16.7	2	6.7	5	16.7	3	10.0
Kaua'i High School	111	42	37.8			69	62.2	38	34.2	14	12.6	24	21.6	26	23.4	5	4.5
Kawaikini PCS	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Ke Ana La'ahana PCS	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Ke Kula Ni'ihau 'O Kekaha PCS	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Ke Kula 'O 'Ehunuikaimalino	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Ke Kula 'O Samuel M. Kamakau PCS	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Kea'au High School	86	27	31.4			59	68.6	38	44.2	27	31.4	11	12.8	16	18.6	5	5.8
Kealakehe High School	76	24	31.6	2	2.6	50	65.8	16	21.1	6	7.9	10	13.2	26	34.2	8	10.5
Kihei Charter School	19	10	52.6	3	15.8	6	31.6	1	5.3	1	5.3		0.0	5	26.3		
King Kekaulike High School	79	36	45.6			43	54.4	23	29.1	15	19.0	8	10.1	14	17.7	6	7.6
Kohala High School	17	7	41.2			10	58.8	5	29.4	4	23.5	1	5.9	4	23.5	1	5.9
Konawaena High School	34	17	50.0	1	2.9	16	47.1	10	29.4	6	17.6	4	11.8	4	11.8	2	5.9
Kua 'O Ka Lā PCS	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Kula Aupuni Ni'ihau Kahelelani	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Kula Kaiapuni 'O Ānuenuē	10	6	60.0			4	40.0	1	10.0	1	10.0			2	20.0	1	10.0
Lahainaluna High School	62	23	37.1			39	62.9	17	27.4	12	19.4	5	8.1	17	27.4	5	8.1
Lāna'i High School	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Laupāhoehoe Community PCS	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Leilehua High School	98	38	38.8			60	61.2	32	32.7	21	21.4	11	11.2	25	25.5	3	3.1
Maui High School	180	88	48.9	1	0.6	91	50.6	51	28.3	28	15.6	23	12.8	29	16.1	11	6.1
McKinley High School	205	73	35.6	5	2.4	127	62.0	52	25.4	7	3.4	45	22.0	65	31.7	10	4.9
Mililani High School	249	85	34.1	5	2.0	159	63.9	61	24.5	21	8.4	40	16.1	88	35.3	10	4.0
Moanalua High School	232	77	33.2	1	0.4	154	66.4	60	25.9	23	9.9	37	15.9	87	37.5	7	3.0
Moloka'i High School	20	9	45.0			11	55.0	7	35.0	5	25.0	2	10.0	4	20.0		
Myron B. Thompson Academy NCPSC	14	6	42.9			8	57.1	3	21.4	1	7.1	2	14.3	4	28.6	1	7.1

	Total	Not Enrolled in English		College Credit Earned While in High School 2/		Enrolled in Math											
						Enrolled in Math Total		Remedial / Developmental 3/						College Level 4/		Other 5/	
								Rem/Dev Total		Remedial		Developmental					
High School		Hct	H%	Hct	H%	Hct	H%	Hct	H%	Hct	H%	Hct	H%	Hct	H%	Hct	H%
<b>State Total</b>	<b>4,258</b>	<b>1,516</b>	<b>35.6</b>	<b>53</b>	<b>1.2</b>	<b>2,689</b>	<b>63.2</b>	<b>1,342</b>	<b>31.5</b>	<b>553</b>	<b>13.0</b>	<b>789</b>	<b>18.5</b>	<b>1,138</b>	<b>26.7</b>	<b>209</b>	<b>4.9</b>
Nānākuli High School	38	20	52.6			18	47.4	13	34.2	8	21.1	5	13.2	5	13.2		
Olomana School	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Pāhoa High School	35	15	42.9			20	57.1	14	40.0	12	34.3	2	5.7	3	8.6	3	8.6
Pearl City High School	168	53	31.5	1	0.6	114	67.9	54	32.1	27	16.1	27	16.1	50	29.8	10	6.0
Radford High School	89	28	31.5	1	1.1	60	67.4	33	37.1	14	15.7	19	21.3	21	23.6	6	6.7
Roosevelt High School	164	50	30.5	2	1.2	112	68.3	39	23.8	3	1.8	36	22.0	65	39.6	8	4.9
University Laboratory School	22	5	22.7			17	77.3	2	9.1			2	9.1	15	68.2		
Waiākea High School	118	46	39.0	3	2.5	69	58.5	32	27.1	21	17.8	11	9.3	26	22.0	11	9.3
Waiāluā High School	38	15	39.5			23	60.5	15	39.5	6	15.8	9	23.7	6	15.8	2	5.3
Wai'anae High School	97	22	22.7			75	77.3	57	58.8	39	40.2	18	18.6	15	15.5	3	3.1
Waimea High School	71	32	45.1			39	54.9	26	36.6	10	14.1	16	22.5	11	15.5	2	2.8
Waipahu High School	167	53	31.7	3	1.8	111	66.5	56	33.5	23	13.8	33	19.8	46	27.5	9	5.4
West Hawai'i Explorations Acad. PCS	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

Notes: H% (horizontal percentage) = percentage headcount of the high school's Total number of graduates enrolled at a UH campus.

1/ Unduplicated headcount of Hawai'i public high school graduates enrolled in a Math course. If the student is registered in more than one Math class, s/he is counted in the lower level course only.

2/ Newly added category accounts for college credit earned prior to fall, such as credits earned from UH via dual credit, or Advanced Placement or International Baccalaureate exams, or in the first summer after high school graduation.

3/ All remedial and developmental classes were offered at the University of Hawai'i Community Colleges. The 4-year campuses at Mānoa, Hilo, and West O'ahu do not offer remedial or developmental classes. Students enrolled at the 4-year campuses are dual enrolled at a community college in order to take remedial and/or developmental coursework. Remedial and developmental classes were identified according to "Remedial and Developmental Education in the University of Hawai'i Community College System, White paper Group Committee, UHCC," no publication date noted, p. 137, as well as in consultation with the Office of Academic Planning, Assessment and Policy Analysis, UHCC.

4/ College Level courses refer to Math courses that are 100-level and above.

5/ Other courses refer to courses that satisfy general education requirements and in some instances are numbered less than 100 but are not classified as either remedial or developmental. These courses may be used to fulfill a degree or certificate requirement.

TABLE 6  
 June 2013 Hawai'i Public High School Graduates  
 Fall 2013 Enrolled Headcount in Mathematics Classes 1/  
 University of Hawai'i, by the Students' Home Campus

College Campus	Total	Not Enrolled in English		College Credit Earned While in High School 2/		Enrolled in Math											
						Enrolled in Math Total		Remedial / Developmental 3/				College Level 4/		Other 5/			
								Rem/Dev Total		Remedial						Developmental	
Hct	H%	Hct	H%	Hct	H%	Hct	H%	Hct	H%	Hct	H%	Hct	H%	Hct	H%		
<b>State Total</b>	<b>4,258</b>	<b>1,516</b>	<b>35.6</b>	<b>53</b>	<b>1.2</b>	<b>2,689</b>	<b>63.2</b>	<b>1,342</b>	<b>31.5</b>	<b>553</b>	<b>13.0</b>	<b>789</b>	<b>18.5</b>	<b>1,138</b>	<b>26.7</b>	<b>209</b>	<b>4.9</b>
<b>4-Year Campuses</b>	<b>1,295</b>	<b>508</b>	<b>39.2</b>	<b>32</b>	<b>2.5</b>	<b>755</b>	<b>58.3</b>	<b>72</b>	<b>5.6</b>	<b>11</b>	<b>0.8</b>	<b>61</b>	<b>4.7</b>	<b>634</b>	<b>49.0</b>	<b>49</b>	<b>3.8</b>
UH-Manoa	853	365	42.8	21	2.5	467	54.7							432	50.6	35	4.1
UH-Hilo	220	64	29.1	9	4.1	147	66.8							133	60.5	14	6.4
UH-West Oahu	222	79	35.6	2	0.9	141	63.5	72	32.4	11	5.0	61	27.5	69	31.1		
<b>UH Community College System</b>	<b>2,963</b>	<b>1,008</b>	<b>34.0</b>	<b>21</b>	<b>0.7</b>	<b>1,934</b>	<b>65.3</b>	<b>1,270</b>	<b>42.9</b>	<b>542</b>	<b>18.3</b>	<b>728</b>	<b>24.6</b>	<b>504</b>	<b>17.0</b>	<b>160</b>	<b>5.4</b>
Hawai'i Community College	371	152	41.0	1	0.3	218	58.8	173	46.6	120	32.3	53	14.3	16	4.3	29	7.8
Honolulu Community College	378	82	21.7	2	0.5	294	77.8	184	48.7	87	23.0	97	25.7	53	14.0	57	15.1
Kapi'olani Community College	670	200	29.9	6	0.9	464	69.3	286	42.7	2	0.3	284	42.4	175	26.1	3	0.4
Kaua'i Community College	213	87	40.8	5	2.3	121	56.8	81	38.0	34	16.0	47	22.1	33	15.5	7	3.3
Leeward Community College	753	260	34.5	2	0.3	491	65.2	330	43.8	191	25.4	139	18.5	123	16.3	38	5.0
Maui College	388	180	46.4	3	0.8	205	52.8	120	30.9	74	19.1	46	11.9	59	15.2	26	6.7
Windward Community College	190	47	24.7	2	1.1	141	74.2	96	50.5	34	17.9	62	32.6	45	23.7		

Notes: H% (horizontal percentage) = percentage headcount of the high school's Total number of graduates enrolled at a UH campus.

- 1/ Unduplicated headcount of Hawai'i public high school graduates enrolled in a Math course. If the student is registered in more than one Math class, s/he is counted in the lower level course only.
- 2/ Newly added category accounts for college credit earned prior to fall, such as credits earned from UH via dual credit, or Advanced Placement or International Baccalaureate exams, or in the first summer after high school graduation.
- 3/ All remedial and developmental classes were offered at the University of Hawai'i Community Colleges. The 4-year campuses at Mānoa, Hilo, and West O'ahu do not offer remedial or developmental classes. Students enrolled at the 4-year campuses are dual enrolled at a community college in order to take remedial and/or developmental coursework. Remedial and developmental classes were identified according to "Remedial and Developmental Education in the University of Hawai'i Community College System, White paper Group Committee, UHCC," no publication date noted, p. 137, as well as in consultation with the Office of Academic Planning, Assessment and Policy Analysis, UHCC.
- 4/ College Level courses refer to Math courses that are 100-level and above.
- 5/ Other courses refer to courses that satisfy general education requirements and in some instances are numbered less than 100 but are not classified as either remedial or developmental. These courses may be used to fulfill a degree or certificate requirement.

**APPENDIX A**  
**List of non-College Level English Courses by Category**  
**University of Hawai'i, Fall 2013**

Category	Course Number	Course Title	
Remedial and Developmental	Remedial	ENG 8	Reading/Writing Basics
		ENG 9	Writing Essentials
		ENG 15	English Language Fundamentals
		ENG 18	Reading Essentials
		ENG 19	Writing Essentials
		ENG 20B	Foundation English
		ENG 20C	Foundation English
		ENG 20D	Foundation English
		ENG 20E	Foundation English
		ENG 20R	Reading & Learning Skills
	ENG 20W	College Writing/Grammar	
	ENG 97B	Writing Essentials	
	Developmental	LSK 35	Learning Skills for College Success
		PCC 20	Pre-College Communication
		ENG 21 1/	Introduction to College Reading
		ENG 22 1/	Introduction to Composition
ENG 24		Reading Reasoning and Writing	
ENG 98		Sentence Skills	
	ENG 90V	Special Topic: English	
Other	Career/Technical	ENG 60	Technical Writing
		ENG 51	Technical Reading
	Coll Read Skills	ENG 102	College Read Skills
		ENG 55	Business Communications
Other ESL	ELI 4	Reading/ Writing American English	
	ELI 72	Reading for Foreign Students	
	ELI 73	Writing for Foreign Students	
	ELI 80	Listening Comprehension II	
	ELI 82	Advanced ESL Reading	
	ESL 13	Coll Reading/Writing Skills II	
	ESL 14	Grammar II	
	ESL 17	Comp/Internet for ESL Acad Purp	
	ESL 18	High Inter Reading in ESL	
	ESL 19	High Inter Writ for Spkers Oth Lang	
	ESL 20	High Inter Grammar in ESL	
	ESL 21	Advanced Reading	
	ESL 22	Advanced Writ for Spkers Oth Lang	
	ESL 23	Intro Expos Writ for NonNat Spkers	
	ESL 23	Advanced Grammar	
	ESL 24	Grammar III	
	ESL 25	Academic Listening and Speaking	
	ESL 2A	Beginning Reading for Speakers	
	ESL 3	College Reading/Writing Skills	
	ESL 3A	Beginning Writ Spkers Oth Lang	
	ESL 4	Grammar I	
	ESL 63	Basics Of Reading in English	
	ESL 7	Computers and Internet for ESL	
	ESL 74	Introduction to Composition	
	ESL 84	Intermediate Composition	
	ESL 8B	Intermediate Reading	
	ESL 96	Intro Expos Writ NonNat Spkers	
	ESL 97	Grammar III	
	ESL 97G	College Grammar	
	ESL 97W	College Writing	
	ESL 98G	Grammar for Expository Writing	
	ESL 98R	Developmental Reading	
	ESL 9B	Intermediate Writ Spkers Other Lang	
	ESOL 90F	Beginning ESOL (Fall)	
	ESOL 90LF	Lab Begin English for Spkers Oth Lang	
	ESOL 91F	Inter English Spkers Oth Lang	
ESOL 91LF	Lab Inter English for Spkers Oth Lang		
ESOL 92F	High Inter English for Spkers Oth Lang		
ESOL 92LF	Lab High Inter English for Spkers Oth Lang		
ESOL 94F	Advanced English for Spkers Oth Lang		

Notes:

1/ Courses with the same course number, but different course titles are offered at multiple colleges within the University of Hawai'i Community College System. Although these courses may have different titles, the curriculum of these courses with the same course number are the same.



**APPENDIX B**  
**List of Non-College Level Mathematics Courses by Category**  
**University of Hawai'i, Fall 2013**

Category	Course Number	Course Title
<b>Remedial and Developmental</b>		
Remedial	MATH 1A-1D MATH 9 1/ MATH 16 MATH 18 MATH 19 MATH 20 MATH 20B MATH 20D MATH 21 MATH 21A MATH 21B MATH 22 1/ 2/ MATH 23 MATH 98M PCM 23	Basic Math Skills Fundamentals of Mathematics Math Study Skills Essential Math for Algebra Developmental Mathematics Basic Mathematics Foundation Math Foundation Math Basic Math & Pre-Algebra Basic College Mathematics Basic College Mathematics II Pre-Algebra Practical Algebra Fundamentals of Mathematics Pre-College Mathematics
Developmental	MATH 24 1/ MATH 25 1/ MATH 26 MATH 27 MATH 28 MATH 29 MATH 73 MATH 81 MATH 82 MATH 83 MATH 99V	Elementary Algebra I Elementary Algebra II Elementary Algebra Intermediate Algebra Developmental Mathematics II Developmental Mathematics III Algebraic Foundations I Foundations of Mathematics Accelerated Algebraic Foundations Algebraic Foundations II Special Studies
<b>Other</b>		
Career/Technical Math	MATH 50 1/ MATH 50C MATH 50H 1/ MATH 51 MATH 53 MATH 66	Technical Mathematics I Technical Math-Auto Tech Math I-Food Svc Algebra Topics for Electricity Tech-Occupational Math Trig & Alg-Dreng & ET
Other College Math	AGBU 110 BUS 100 BUS 250 BUSN 189 1/ CHEM 111 ICS 141 1/ MATH 197H NREM 203 PHIL 110 1/ PHIL 111 SOCS 150	Programming Math to Solve Bus Problems Applied Math in Business Business Mathematics Chemistry Discrete Math for Comp Sci I Math for Culinary Arts Ap Cal: Mgt, Life Sci, Hum Res Introduction to Deductive Logic Intro to Inductive Logic Street Science

Notes:

1/ Courses with the same course number, but different course titles are offered at multiple colleges within the University of Hawai'i System. Although these courses may have different titles, the curriculum of these courses with the same course number are the same.

2/ MATH 22 was moved from the Developmental to the Remedial category effective Fall 2013.