

**Table 140.—Average number of Carnegie units earned by public high school graduates in various subject fields, by student characteristics: 1982 to 1998**

Student characteristics	Total	English	His-tory/soci-al studies	Mathematics			Science					For-eign lan-guages	Arts	Vocational edu-cation <sup>1</sup>	Per-sonal use <sup>2</sup>	Com-puter science <sup>3</sup>
				Total	Less than algebra	Alge-bra or higher	Total	Gen-eral science	Biology	Chem-istry	Phys-ics					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
<b>1982 graduates</b>	<b>21.58</b>	<b>3.93</b>	<b>3.16</b>	<b>2.63</b>	<b>0.90</b>	<b>1.74</b>	<b>2.20</b>	<b>0.73</b>	<b>0.94</b>	<b>0.34</b>	<b>0.17</b>	<b>0.99</b>	<b>1.47</b>	<b>4.62</b>	<b>2.58</b>	<b>0.12</b>
Male	21.40	3.88	3.16	2.71	0.94	1.77	2.27	0.76	0.91	0.36	0.23	0.80	1.29	4.60	2.69	0.14
Female	21.75	3.98	3.15	2.57	0.86	1.71	2.13	0.71	0.97	0.33	0.12	1.17	1.63	4.64	2.48	0.11
Race/ethnicity																
White	21.69	3.90	3.19	2.68	0.77	1.91	2.27	0.73	0.97	0.38	0.20	1.06	1.53	4.53	2.52	0.13
Black	21.15	4.08	3.08	2.61	1.36	1.25	2.06	0.81	0.90	0.26	0.09	0.72	1.26	4.75	2.60	0.12
Hispanic	21.23	3.94	3.00	2.33	1.21	1.12	1.80	0.75	0.81	0.16	0.07	0.77	1.29	5.22	2.87	0.08
Asian	22.46	4.01	3.16	3.15	1.71	2.44	2.64	0.51	1.11	0.61	0.42	1.79	1.31	3.34	3.05	0.22
American Indian	21.45	3.98	3.25	2.35	1.23	1.12	2.04	0.67	0.84	0.42	0.12	0.48	1.72	4.77	2.84	0.06
Academic track																
Academic <sup>4</sup>	21.75	4.11	3.32	3.04	0.73	2.30	2.65	0.73	1.13	0.53	0.26	1.54	1.91	2.55	2.62	0.10
Vocational <sup>5</sup>	20.21	3.44	2.63	1.80	1.09	0.71	1.32	0.69	0.57	0.04	0.02	0.18	0.59	7.74	2.51	0.12
Both <sup>6</sup>	22.89	4.04	3.33	2.69	1.02	1.67	2.17	0.79	0.94	0.29	0.14	0.75	1.41	6.03	2.47	0.18
Neither <sup>7</sup>	18.73	3.58	2.70	1.73	1.08	0.65	1.33	0.69	0.59	0.03	0.02	0.22	0.85	5.23	3.06	0.05
<b>1987 graduates</b>	<b>23.00</b>	<b>4.12</b>	<b>3.32</b>	<b>3.01</b>	<b>0.86</b>	<b>2.15</b>	<b>2.54</b>	<b>0.76</b>	<b>1.10</b>	<b>0.47</b>	<b>0.21</b>	<b>1.35</b>	<b>1.44</b>	<b>4.55</b>	<b>2.67</b>	<b>0.47</b>
Male	22.88	4.08	3.29	3.05	0.91	2.14	2.57	0.79	1.05	0.47	0.26	1.16	1.24	4.64	2.83	0.47
Female	23.12	4.15	3.35	2.97	0.82	2.15	2.52	0.74	1.14	0.47	0.17	1.53	1.63	4.47	2.51	0.47
Race/ethnicity																
White	23.11	4.08	3.29	3.01	0.74	2.27	2.61	0.75	1.12	0.50	0.23	1.38	1.50	4.65	2.60	0.49
Black	22.40	4.22	3.34	2.99	1.40	1.59	2.32	0.90	1.01	0.31	0.10	1.08	1.20	4.52	2.73	0.39
Hispanic	22.84	4.30	3.22	2.81	1.30	1.50	2.24	0.78	1.07	0.29	0.10	1.25	1.34	4.49	3.19	0.42
Asian	24.47	4.37	3.65	3.72	0.53	3.18	3.13	0.59	1.17	0.87	0.50	2.07	1.18	3.11	3.23	0.58
American Indian	23.23	4.22	3.18	2.98	1.35	1.63	2.44	0.81	1.22	0.32	0.09	0.75	1.68	4.92	3.06	0.39
Academic track																
Academic <sup>4</sup>	23.20	4.26	3.55	3.33	0.65	2.68	2.97	0.73	1.23	0.68	0.32	1.92	1.87	2.57	2.73	0.38
Vocational <sup>5</sup>	21.07	3.62	2.59	2.00	1.29	0.71	1.48	0.74	0.70	0.03	0.01	0.18	0.47	8.07	2.67	0.39
Both <sup>6</sup>	23.53	4.11	3.29	2.93	0.97	1.96	2.37	0.81	1.07	0.35	0.14	1.01	1.20	6.09	2.53	0.64
Neither <sup>7</sup>	19.56	3.55	2.45	2.11	1.62	0.49	1.47	0.84	0.59	0.03	0.00	0.18	0.76	5.10	3.93	0.17
<b>1990 graduates</b>	<b>23.53</b>	<b>4.19</b>	<b>3.47</b>	<b>3.15</b>	<b>0.90</b>	<b>2.25</b>	<b>2.75</b>	<b>0.85</b>	<b>1.14</b>	<b>0.53</b>	<b>0.23</b>	<b>1.54</b>	<b>1.55</b>	<b>4.19</b>	<b>2.68</b>	<b>0.54</b>
Male	23.35	4.13	3.45	3.16	0.96	2.20	2.78	0.88	1.11	0.52	0.28	1.33	1.31	4.32	2.87	0.50
Female	23.69	4.25	3.50	3.14	0.85	2.29	2.73	0.83	1.17	0.53	0.19	1.72	1.76	4.08	2.51	0.57
Race/ethnicity																
White	23.54	4.12	3.46	3.13	0.80	2.33	2.80	0.84	1.15	0.55	0.25	1.58	1.61	4.22	2.61	0.52
Black	23.40	4.34	3.49	3.20	1.25	1.95	2.68	0.98	1.11	0.42	0.16	1.20	1.34	4.41	2.74	0.60
Hispanic	23.83	4.51	3.42	3.13	1.30	1.83	2.50	0.83	1.10	0.42	0.14	1.57	1.48	4.12	3.10	0.58
Asian	24.07	4.50	3.70	3.52	0.70	2.82	2.97	0.68	1.12	0.74	0.42	2.06	1.29	3.07	2.96	0.54
American Indian	22.64	4.08	3.34	3.04	1.03	2.01	2.48	0.83	1.09	0.42	0.15	1.15	1.11	4.62	2.81	0.60
Academic track																
Academic <sup>4</sup>	23.53	4.30	3.65	3.37	0.68	2.70	3.06	0.81	1.23	0.70	0.32	2.02	1.93	2.41	2.78	0.42
Vocational <sup>5</sup>	21.73	3.60	2.58	2.07	1.54	0.53	1.62	0.87	0.71	0.03	0.01	0.17	0.42	8.68	2.59	0.46
Both <sup>6</sup>	23.92	4.14	3.38	3.02	1.12	1.90	2.51	0.92	1.09	0.36	0.14	1.07	1.17	6.10	2.53	0.73
Neither <sup>7</sup>	19.81	3.63	2.59	2.01	1.57	0.44	1.47	0.79	0.60	0.04	0.03	0.21	0.79	5.81	3.29	0.36
<b>1994 graduates</b>	<b>24.17</b>	<b>4.29</b>	<b>3.55</b>	<b>3.33</b>	<b>0.76</b>	<b>2.57</b>	<b>3.04</b>	<b>0.88</b>	<b>1.26</b>	<b>0.62</b>	<b>0.28</b>	<b>1.71</b>	<b>1.66</b>	<b>3.96</b>	<b>2.63</b>	<b>0.64</b>
Male	24.00	4.26	3.51	3.32	0.85	2.48	3.03	0.91	1.20	0.59	0.32	1.49	1.43	4.13	2.83	0.63
Female	24.34	4.32	3.59	3.34	0.68	2.66	3.06	0.86	1.31	0.64	0.24	1.93	1.87	3.80	2.44	0.65
Race/ethnicity																
White	24.33	4.23	3.56	3.36	0.70	2.66	3.13	0.89	1.29	0.65	0.30	1.76	1.74	3.96	2.61	0.63
Black	23.59	4.36	3.51	3.23	1.09	2.14	2.80	0.92	1.21	0.49	0.17	1.35	1.36	4.29	2.69	0.64
Hispanic	24.06	4.61	3.45	3.28	0.96	2.32	2.69	0.83	1.19	0.49	0.17	1.73	1.51	3.87	2.93	0.76
Asian	24.47	4.60	3.66	3.66	0.67	2.98	3.35	0.80	1.22	0.81	0.48	2.09	1.32	3.01	2.78	0.71
American Indian	24.47	4.27	3.57	3.11	0.94	2.17	2.82	0.91	1.28	0.50	0.13	1.30	2.01	4.27	3.12	0.53
Academic track																
Academic <sup>4</sup>	24.07	4.37	3.69	3.52	0.58	2.94	3.32	0.83	1.34	0.77	0.37	2.14	2.05	2.28	2.71	0.50
Vocational <sup>5</sup>	21.60	3.70	2.49	2.20	1.56	0.64	1.69	0.80	0.83	0.03	0.02	0.14	0.34	8.64	2.41	0.55
Both <sup>6</sup>	24.61	4.23	3.45	3.17	0.96	2.21	2.78	0.96	1.19	0.45	0.17	1.24	1.21	6.01	2.52	0.85
Neither <sup>7</sup>	21.28	3.54	2.24	2.25	1.71	0.54	1.53	0.82	0.63	0.05	0.02	0.19	0.56	6.51	4.47	0.33

**Table 140.—Average number of Carnegie units earned by public high school graduates in various subject fields, by student characteristics: 1982 to 1998—Continued**

Student characteristics	Total	English	His-tory/social studies	Mathematics			Science					For- eign lan- guages	Arts	Voca-tional edu- ca-tion <sup>1</sup>	Per- sonal use <sup>2</sup>	Com- puter science <sup>3</sup>
				Total	Less than algebra	Alge-bra or higher	Total	Gen-eral science	Biology	Chem-istry	Phys-ics					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
<b>1998 graduates</b> .....	<b>25.14</b>	<b>4.25</b>	<b>3.74</b>	<b>3.40</b>	<b>0.67</b>	<b>2.73</b>	<b>3.12</b>	<b>0.89</b>	<b>1.26</b>	<b>0.66</b>	<b>0.31</b>	<b>1.85</b>	<b>1.90</b>	<b>3.99</b>	<b>2.89</b>	<b>0.74</b>
Male .....	24.93	4.19	3.68	3.37	0.74	2.64	3.09	0.93	1.20	0.62	0.33	1.62	1.61	4.25	3.12	0.78
Female .....	25.36	4.31	3.80	3.42	0.62	2.80	3.17	0.87	1.32	0.70	0.28	2.06	2.15	3.77	2.67	0.71
Race/ethnicity																
White .....	25.21	4.19	3.77	3.40	0.57	2.84	3.18	0.87	1.28	0.69	0.33	1.90	2.00	3.97	2.80	0.73
Black .....	24.83	4.28	3.69	3.42	0.90	2.53	3.03	0.97	1.24	0.58	0.22	1.58	1.57	4.33	2.94	0.84
Hispanic .....	25.08	4.51	3.60	3.28	1.05	2.23	2.81	0.97	1.13	0.50	0.20	1.78	1.78	3.97	3.36	0.71
Asian .....	25.23	4.37	3.92	3.62	0.65	2.97	3.43	0.81	1.26	0.83	0.51	2.29	1.52	3.15	2.95	0.67
American Indian .....	24.43	4.18	3.67	3.10	0.90	2.20	2.68	0.98	1.07	0.49	0.15	1.45	1.94	4.02	3.40	0.67
Academic track																
Academic <sup>4</sup> .....	24.91	4.33	3.87	3.54	0.53	3.00	3.34	0.84	1.33	0.78	0.38	2.24	2.41	2.22	2.97	0.52
Vocational <sup>5</sup> .....	22.60	3.46	2.55	2.17	1.30	0.87	1.69	1.05	0.59	0.03	0.01	0.14	0.47	9.12	3.01	0.81
Both <sup>6</sup> .....	25.64	4.20	3.66	3.30	0.81	2.49	2.94	0.96	1.20	0.54	0.23	1.45	1.31	6.06	2.73	1.03
Neither <sup>7</sup> .....	21.50	3.21	2.32	2.19	1.59	0.60	1.58	0.88	0.58	0.04	0.08	0.20	0.55	5.64	5.82	0.51

<sup>1</sup> Includes nonoccupational vocational education, vocational general introduction, agriculture, business, marketing, health, occupational home economics, trade and industry, and technical courses.

<sup>2</sup> Includes personal and social courses, religion and theology, and courses not included in the other subject fields.

<sup>3</sup> Computer courses are included in mathematics and vocational categories.

<sup>4</sup> Includes students who complete at least 12 Carnegie units in academic courses, but less than 3 Carnegie units in any specific labor market preparation field.

<sup>5</sup> Includes students who complete at least 3 Carnegie units in a specific labor market preparation field, but less than 12 Carnegie units in academic courses.

<sup>6</sup> Includes students who complete at least 12 Carnegie units in academic courses and at least 3 Carnegie units in a specific labor market preparation field.

<sup>7</sup> Includes students who complete less than 12 Carnegie units in academic courses and less than 3 Carnegie units in a specific labor market preparation field.

NOTE: The Carnegie unit is a standard of measurement that represents one credit for the completion of a 1-year course. Data differ slightly from figures appearing in other NCES reports because of differences in taxonomies and case exclusion criteria.

SOURCE: U.S. Department of Education, National Center for Education Statistics, "High School and Beyond," First Followup survey; "1990 High School Transcript Study," "National Education Longitudinal Study of 1988," Second Followup survey; "1994 High School Transcript Study;" and "1998 High School Transcript Study." (This table was prepared February 2000.)