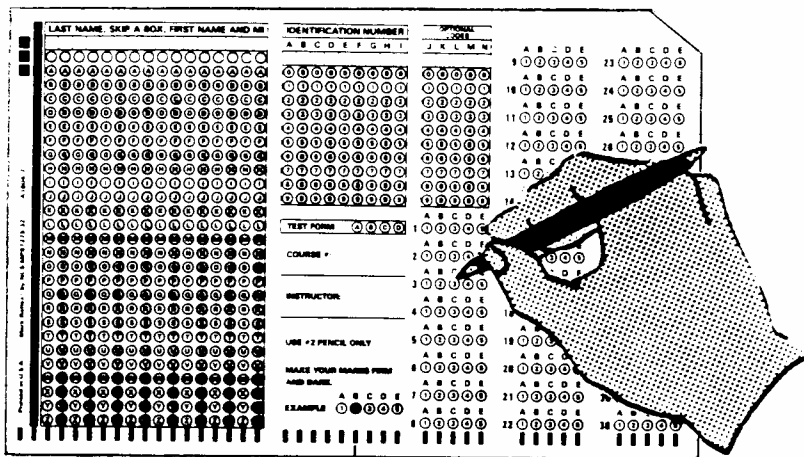


THE UNIVERSITY OF IOWA
SUMMARY OF CREDIT EARNED
BY EXAMINATION
FIRST-YEAR STUDENTS
FALL 2003



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INTRODUCTION

The following report summarizes the results of credit earning exams taken by entering first-year students enrolled at The University of Iowa (UI) in the Fall of 2003. It includes data for the Advanced Placement Program (AP) and the College-Level Examination Program (CLEP).

ADVANCED PLACEMENT PROGRAM

The Advanced Placement Program (AP), sponsored by the College Board and administered by Educational Testing Service, offers high school students the opportunity to participate in college-level course work while in high school. There are 23 AP disciplines with 33 corresponding exams, developed by college professors and secondary school teachers. The AP exams are administered each year in May with scores reported to institutions by the end of July. This section of the placement report provides summaries of AP score reports sent to the UI during the time period October, 2002 through September, 2003. Tables 1 and 2 provide a list of AP exams with cut scores for awarding credit in the Colleges of Liberal Arts & Sciences and Engineering; changes that took effect this year include the elimination of Studio Art General and the inclusion of the World History test.

Table 1. The UI College of Liberal Arts & Sciences 2003-2004 AP Credit Policy

AP Subject Exams	Score	Semester Hours
Art History	3-5	3
Studio Art Drawing	3-5	3
Biology	3-5	4
Chemistry	3-4 5	3 6
Computer Science A	4-5	3
Computer Science AB	3 4-5	3 6
Macroeconomics	3-5	3
Microeconomics	3-5	3
English Language & Composition	3-5	3
English Literature & Composition	3-4 5	6 9
Environmental Science	4-5	3
European History	3-5	3
French Language	4-5	3
French Literature	4-5	3
German Language	4-5	3
Human Geography	3-5	4
Govt. & Politics: U.S.	3-5	3
Govt. & Politics: Comparative	3-5	3
Latin: Literature	5	3
Latin: Vergil	5	3
Math-Calculus AB	4-5	4
Math-Calculus BC	3-5	8
AB subscore	4-5	4
Music Theory	3 4 5	3 4 8
Physics B	4-5	8
Physics C Mechanics	4-5	4
Physics C Electricity & Magnetism	4-5	4
Psychology	3-5	3
Spanish Language	4-5	3
Spanish Literature	4-5	3
Statistics	4-5	4
U.S. History	3-5	3
World History	3-5	3

Table 2. The UI College of Engineering 2003-2004 AP Credit Policy

AP Subject Exams	Score	Semester Hours
Art History	3-5	3
Calculus AB	4-5	4
Calculus BC	3-5	4
Chemistry	5	4
Macroeconomics	3-5	3
Microeconomics	3-5	3
English Language & Composition	3-5	3
English Literature & Composition	3-4	6
	5	9
European History	3-5	3
French Language	4-5	3
French Literature	4-5	3
German Language	4-5	3
Govt. & Politics: American	3-5	3
Govt. & Politics: Comparative	3-5	3
Human Geography	3-5	4
Latin Literature	5	3
Latin: Vergil	5	3
Physics C Mechanics	4-5	4
Physics C Electricity & Magnetism	4-5	4
Psychology	3-5	3
Spanish Language	4-5	3
Spanish Literature	4-5	3
U. S. History	3-5	3

From January, 2003 through September 2003 a total of 1,336 students sent AP score results to the UI (up from 1,238 the year before). This group of score senders included high school graduates eligible to enroll at the UI and high school underclassmen taking AP exams prior to their senior year. Of the 1,336 score senders, 71% (n=949) enrolled in the fall semester as first-year students. Table 3 displays the number of first-year students participating in AP, the number of scores submitted, and the number of credit hours submitted for evaluation for students in the Colleges of Liberal Arts & Sciences, Engineering, and Business. Scores eligible for credit are defined as a student scoring high enough to be eligible to receive credit by exam, given the student meets other conditions determined by his/her college. A total of 77 students from the College of Liberal Arts & Sciences, 5 students from College of Business and 11 students from the

College of Engineering submitted English Language and English Literature scores and scored high enough to receive credit on both, in this situation the English Literature exam takes precedence. In addition, 5 students from the College of Liberal Arts & Sciences, and 3 students from the College of Engineering submitted both Calculus AB and Calculus BC scores and scored high enough to receive credit on both, in this situation the Calculus BC exam score takes precedence, reducing the total semester hours granted. Twenty-eight students from the College of Liberal Arts & Sciences, 13 from the College of Engineering, and 1 from the College of Business received credit earning scores on both Calculus BC and AB subscores; in this situation only credit is given for Calculus BC which also reduces the total number of semester hours granted. A total of 47 AP exam scores submitted by engineering students were not accepted by the College of Engineering; tests submitted but not awarded credit included 6 Computer Science A tests, 18 Biology tests, 11 Physics B tests and 12 Statistics tests. Again, these scores are counted in the total for number of scores submitted but not in scores eligible for credit.

Tables 4 and 5 provide a summary of the number of AP scores submitted and the percentage of scores at or above the cut score for awarding credit for first-year students in the Colleges of Engineering and Liberal Arts & Sciences. A ranking of the top five subjects by the number of AP scores submitted for students enrolled in the Colleges of Liberal Arts & Sciences and Business indicate that English Literature and Composition ranks first, followed by Calculus AB, U.S. History, U.S. Government and Politics, and Biology. Only the top ranking is consistent with previous year's results. Major changes to the list include Calculus AB moving from fourth place last year to second this year, and the new appearance of U.S. Government (replacing Psychology).

Table 3. 2003 AP Participation by UI First-Year Students by College

	College			
	CLAS	ENG	BUS	Total
Students submitting AP scores ¹	794	116	36	949
Students eligible for credit	562	91	31	684
AP exam scores submitted ²	1,884	336	118	2,338
AP exam scores eligible for credit	1,116	220	82	1,418
Total credit hours (CH) submitted	4,655	959	329	5,943
Average CH submitted per student (all AP score submitters)	5.87	8.27	9.14	6.29
Average CH submitted per student (only those obtaining credit)	8.28	10.54	10.61	8.69
Median CH submitted per student (all AP score submitters)	4.00	6.00	7.50	4.00
Median CH submitted per student (only those obtaining credit)	6.00	8.00	9.00	6.00

¹ Three students from College of Nursing submitted AP test scores.

² College of Liberal Arts & Sciences: 110 exams not eligible for credit due to duplication; 1 exam not eligible for credit.

College of Business: 6 exams not eligible for credit due to duplication.

College of Engineering: 27 exams not eligible due to duplication, 47 exams submitted not accepted by the College of Engineering for credit.

Table 4. 2003 AP Exam Scores Submitted and Percentage at or above the cut score: CLAS & College of Business

AP Subject Exams	Number of AP scores at or above cut score	Total number of AP scores submitted	Percentage of scores at or above cut score
Art History	3	3	100
Studio Art Drawing	4	6	67
Biology	92	121	76
Chemistry	43	58	74
Computer Science A	9	14	64
Computer Science AB	4	5	80
Macroeconomics	63	85	74
Microeconomics	46	64	72
English Language and Composition	55	88	63
English Literature and Composition	262	373	70
Environmental Science	4	12	33
European History	78	94	83
French Language	1	19	5
French Literature	0	0	n/a
German Language	2	8	25
Government and Politics: U.S.	101	141	72
Government and Politics: Comparative	18	27	67
Human Geography	2	2	100
Latin: Literature	0	0	n/a
Latin: Vergil	0	0	n/a
Calculus AB	112	247	45
Calculus BC	31	41	76
Calculus AB subscore	0	12	0
Music Theory	1	3	33
Physics B	21	45	47
Physics C: Mechanics	1	5	20
Physics C: Electricity and Magnetism	0	1	0
Psychology	99	110	90
Spanish Language	11	42	26
Spanish Literature	0	1	0
Statistics	32	90	36
U.S. History	101	154	66
World History	2	5	40
Total	1,198	1,876	64

Table 5. 2003 AP Exam Scores Submitted and Scores Eligible for Credit by Subject Exam: College of Engineering

AP Subject Exams	Number of AP Scores Eligible for Credit	Total Number of AP Scores Submitted	Percentage of AP Scores Submitted Receiving Credit
Biology *	15	18	83
Chemistry	13	18	72
Computer Science A *	5	6	83
Economics: Macro	11	13	85
Economics: Micro	13	16	81
English Language and Composition *	7	8	88
English Literature and Composition	30	35	86
European History	12	12	100
French	0	3	0
German	1	2	50
Government and Politics: American	15	20	75
Government and Politics: Comparative	0	3	0
Math: Calculus AB	41	61	67
Math: Calculus BC	17	22	77
AB subscore	0	8	0
Physics B:	5	11	45
Physics C: Mechanics	2	4	50
Physics C: Electricity & Magnetism	2	3	67
Psychology	6	6	100
Spanish	1	4	25
Statistics	6	12	50
U.S. History	18	24	75
Total	220	309	71

* College of Engineering does not award credit for this exam.

Table 6 represents the distribution of credit hours submitted by students, most students are eligible for some credit (71.5% of CLAS/Business students & 78.5% of Engineering students). The majority of students earned between 3-6 hours of credit.

Table 6. 2003 Distribution of AP Credit Submitted by College

Total credit hours submitted	CLAS/BUSINESS	ENGINEERING
36-57	4	2
31-35	3	1
24-30	14	3
19-23	30	5
17-18	10	3
15-16	23	6
13-14	23	7
11-12	29	6
10	24	5
9	52	5
8	6	6
7	28	6
6	153	9
4	72	16
3	122	11
0	236	25

For AP score senders across colleges; the average ACT composite score was 27.1, and the average SAT total score was 1244.6. The average high school rank was 80.6. The average ACT composite was higher for students earning credit compared to those who did not, (28.0 vs. 24.9). The average high school rank showed a similar relationship (82 vs. 77). Table 7 illustrates this relationship by examining the proportion of students earning some credit verses those earning none by ACT composite score. Students with an ACT composite score equal to or greater than 28 had a much better chance of earning credit compared to those with lower scores.

Table 7. Eligibility for AP Credit by ACT Composite Score

ACT Composite	N	% Not Eligible	% Eligible
36	1	0	100
35	1	0	100
34	15	0	100
33	26	4	96
32	42	2	98
31	62	6	94
30	79	10	90
29	84	17	83
28	99	18	82
27	107	28	72
26	98	35	65
25	84	42	58
24	68	52	48
23	53	45	55
22	31	68	32
21	16	44	56
20	12	92	8
19	11	82	18
18	2	100	0
11	1	100	0
Total N	892		

Illinois and Iowa high schools with five or more students submitting AP exam scores are reported in Tables 8 and 9. Iowa high schools still constitute the largest group submitting AP scores, accounting for 52% (490/946) of the students who submitted scores in 2003 and enrolled at the University of Iowa. However, the percentage of students submitting scores from Iowa has decreased during each of the last several years: in 1996 that percentage was 68%. Students from high schools in Illinois constitute the next largest group with 36%, followed by students from Minnesota (3.5%) and Wisconsin (2.6%). A breakdown by state is illustrated in Table 10; scores were submitted to the University of Iowa from only 23 different states; this is markedly down from 32 and 28 different states in the last two years (2002 and 2001) respectively.

The University of Iowa received scores from students in 105 out of a total of 645 public and private high schools in the state of Iowa; this is approximately 16% of Iowa high schools. Comparatively, the University of Iowa received scores from 133 high schools in Illinois, out of a total of 1,391 high schools; this corresponds to approximately 10% of Illinois high schools. Last year, the University of Iowa received scores from only 107 different Illinois high schools.

Table 8: 2003 Frequency of Enrolled UI First-Year Students Submitting AP Scores by Illinois High Schools

Illinois High School	City	Number of Students
ADLAI E STEVENSON HIGH SCHOOL	LINCOLNSHIRE	16
HINSDALE TOWNSHIP HIGH SCHOOL	HINSDALE	9
OAK PARK & RIVER FOREST HIGH SCHOOL	OAK PARK	8
BUFFALO GROVE HIGH SCHOOL	BUFFALO GROVE	7
EVANSTON TOWNSHIP HIGH SCHOOL	EVANSTON	7
MAINE TOWNSHIP HIGH SCHOOL SOUTH	PARK RIDGE	7
MAINE WEST HIGH SCHOOL	DES PLAINES	7
WILLIAM FREMD HIGH SCHOOL	PALATINE	7
JOHN HERSEY HIGH SCHOOL	ARLINGTON HEIGHTS	6
LAKE ZURICH SENIOR HIGH SCHOOL	LAKE ZURICH	6
NAPERVILLE CENTRAL HIGH SCHOOL	NAPERVILLE	6
NEUQUA VALLEY HIGH SCHOOL	NAPERVILLE	6
PALATINE HIGH SCHOOL	PALATINE	6
PROSPECT HIGH SCHOOL	MT PROSPECT	6
BARRINGTON COMMUNITY HIGH SCH	BARRINGTON	5
HIGHLAND PARK HIGH SCHOOL	HIGHLAND PARK	5
LYONS TOWNSHIP HIGH SCHOOL N	LA GRANGE	5
MONTINI CATHOLIC HIGH SCHOOL	LOMBARD	5
PRAIRIE RIDGE HIGH SCHOOL	CRYSTAL LAKE	5
YORK COMMUNITY HIGH SCHOOL	ELMHURST	5
Those with Fewer than Five Students Sending Scores:		206
Number of Students from IL Submitting AP Scores:		305

Table 9: 2003 Frequency of UI First-Year Students Submitting AP Scores by Iowa High Schools

Iowa High School	City	Number of Students
WEST HIGH SCHOOL	IOWA CITY	31
CITY HIGH SCHOOL	IOWA CITY	18
CEDAR FALLS HIGH SCHOOL	CEDAR FALLS	17
DUBUQUE SENIOR HIGH SCHOOL	DUBUQUE	17
MUSCATINE HIGH SCHOOL	MUSCATINE	17
PLEASANT VALLEY COMMUNITY HIGH SCHOOL	PLEASANT VALLEY	17
GEORGE WASHINGTON HIGH SCHOOL	CEDAR RAPIDS	15
ROOSEVELT HIGH SCHOOL	DES MOINES	15
VALLEY HIGH SCHOOL	WEST DES MOINES	14
ANKENY HIGH SCHOOL	ANKENY	13
XAVIER HIGH SCHOOL	CEDAR RAPIDS	13
ABRAHAM LINCOLN HIGH SCHOOL	DES MOINES	12
BETTENDORF HIGH SCHOOL	BETTENDORF	12
HEMPSTEAD HIGH SCHOOL	DUBUQUE	12
JOHN F KENNEDY SENIOR HIGH SCHOOL	CEDAR RAPIDS	12
JOHNSTON HIGH SCHOOL	JOHNSTON	12
CLINTON HIGH SCHOOL	CLINTON	11
DOWLING HIGH SCHOOL	WEST DES MOINES	10
HOOVER HIGH SCHOOL	DES MOINES	9
WAHLERT HIGH SCHOOL	DUBUQUE	9
WEST HIGH SCHOOL	WATERLOO	9
URBANDALE HIGH SCHOOL	URBANDALE	8
SOUTHEAST POLK HIGH SCHOOL	RUNNELLS	7
LINN-MAR HIGH SCHOOL	MARION	6
NORTH HIGH SCHOOL	DAVENPORT	5
NORWALK COMMUNITY HIGH SCHOOL	NORWALK	5
REGINA HIGH SCHOOL	IOWA CITY	5
WEST DELAWARE HIGH SCHOOL	MANCHESTER	5
Those with Fewer than 5 Students Sending Scores:		154
Number of Students from IA submitting AP Scores:		490

Table 10: Number of Students Submitting AP Scores by State: Fall 2003.

State	Number of Students	Percentage
Iowa	490	51.7
Illinois	340	35.9
Minnesota	33	3.5
Wisconsin	24	2.5
California	7	0.7
Missouri	6	0.6
Texas	5	0.5
Florida	4	0.4
New Jersey	4	0.4
Maryland	4	0.4
Unknown	4	0.4
Ohio	4	0.4
Indiana	3	0.3
Michigan	3	0.3
Colorado	3	0.3
Nebraska	2	0.2
Montana	2	0.2
North Carolina	2	0.2
South Dakota	2	0.2
Arkansas	1	0.1
Massachusetts	1	0.1
Kentucky	1	0.1
Nevada	1	0.1

COLLEGE-LEVEL EXAMINATION PROGRAM

This section of the report focuses on test results for those students who took the College-Level Examination Program (CLEP) tests either at The University of Iowa or whose scores were sent to the University from October, 2002 through September, 2003. A total of 53 students submitted a score or took a CLEP test and subsequently enrolled at The University of Iowa as first-year students for the fall 2003 semester. The majority of students participating in CLEP enrolled in the College of Liberal Arts & Sciences (n=45), six enrolled in the College of Engineering and two enrolled in the College of Business. The CLEP tests for which students in the Colleges of Liberal Arts & Sciences and Engineering can earn credit are shown in Table 11.

Table 11: CLEP tests for which students can earn credit (by college).

	CLAS	Engineering	Credit Hours
Natural Sciences	✓		3 or 6
Social Sciences and History		✓	3 or 6
Analyzing and Interpreting Literature	✓		3
American Government	✓		3
Introduction to Educational Psychology	✓		3
Introductory Psychology	✓		3
Principles of Microeconomics	✓		3
Principles of Macroeconomics	✓		3
Introductory Sociology	✓		3
Chemistry	✓		3
Calculus	✓	✓	4
Biology	✓		2

The number of students participating in the CLEP program has remained substantially lower since the 1999 academic year. In 1999, 762 students submitted CLEP scores for evaluation. This reduction is due to the decision to discontinue the June CLEP program for admitted students and the change to computer based testing.

Table 12 provides a summary of the number of tests taken and credit awarded for 2003 CLEP test takers. The College Board no longer makes a distinction between CLEP

general and subject tests since CLEP became a computer based testing program. Hence, all CLEP test scores submitted to the UI by prospective students are listed in this report.

For students submitting CLEP scores and enrolling (n=36); the average ACT composite score was 25.9 (n=30), and the average SAT total score was 1116 (n=16). The average high school rank was 67.7 (n=33). This year, the average ACT composite is slightly higher for students earning CLEP credit compared to those who did not, (26.0 vs. 25.9). In the previous two years, the reverse was true. Average SAT scores were higher for those eligible for credit versus those not eligible for credit (1135 vs. 1110).

Table 13 shows the percentage of students that earned credit, by ACT composite score. There appears to be no cutoff value on the ACT composite score scale where a student has a better or worse chance of earning CLEP credit. The information from academic year 2000-2001 or earlier should be considered when advising students whether or not to take a CLEP test.

Table 12. 2003 Summary of CLEP Results

Test Name	CLAS and Engineering	
	Test scores submitted	% credit earning scores
Analyzing & Interpreting Literature (MC)	15	0 ¹
Analyzing & Interpreting Literature (essay)	12	17
American Government	6	0
Biology	1	0
Calculus	1	0
Educational Psychology	1	0
Introductory Macroeconomics	1	0
Introductory Psychology	4	50
Introductory Sociology	3	67
Natural Sciences	6	83
Social Science & History	2	100
Trigonometry	1	0 ²
TOTAL:	53	26

¹ Credit is not awarded for this exam; but twelve students received scores high enough to proceed onto the essay exam, which awards credit.

² Credit is not awarded for this test at the University of Iowa; but could be used to meet a requirement.

Table 13. 2003 CLEP Exam Credit Awarded (%) by ACT Composite

ACT Composite	N	No Credit Awarded	Credit
30	3	2	1
29	5	4	1
27	4	3	1
26	4	3	1
25	5	5	0
24	3	2	1
23	4	2	2
21	2	2	0
Total %	100	77	23
Total N	30	23	7