The New York Time

Copyright © 1990 The New York Times

NEW YRK, MONDAY, MARCH 5, 1990

50 cents beyond 75 m

How to Learn in College: Little Groups, Many Tests

By EDWARD B.FISKE

Some relatively simple changes in teaching methods can produce significant gains in learning for college students, according to a study made public yesterday by Harvard University.

The researchers reported that college students do their best in courses that include "frequent checkpoints" like quizzes, tests and oral exams.

They also thrive, the study reported, when they do at least some of their studying in small groups rather than logging long, solitary hours of study in a library.

"The widely held myth that college students prefer courses where they are left alone to work on their own with relatively few exams or papers is just that, a myth," Prof. Richard J. Light of the Graduate School of Education and the Kennedy School of Government, who directed the project, said in an interview.

Mid-Course Corrections

Jeremy Sevareid, a sophomore who is majoring in history and government, said, "I had one class where we had papers due every three weeks. That meant we really had to have a handle on the material, and if we didn't, it showed immediately."

The researchers reported that faculty members also benefited from occasional feedback. They recommended that professors ask students to write a "one-minute paper" at the end of each teaching session describing "the big point you learned today" and

"the main unanswered question you still have."

"Such an exercise helps the student to focus on the central themes of the course and gives the faculty member the chance to make mid-course corrections in their teaching," Mr. Light said.

The findings grew out of Harvard Assessment Seminars, a project initiated three years ago by Harvard's president, Derek C. Bok, to promote more internal examination of teaching, advising and student life.

Organizing Their Thoughts

Noel Ignnatiev, an instructor in history and literature, said he tries to give his classes a short assignment every week. "When students have to write something — even if it's not graded — it compels them to organize their thoughts and take some responsibility for how the class goes," he said.

The first summary of the study, "The Harvard Assessment Seminars: Explorations With Students and Faculty about Teaching, Learning and Student Life," was made public yesterday.

Here are several other findings:

Students who devore a lot of time to intramural sports and other extracurricular activities have higher morale, but no lower grades than those who are less active. The only exception is members of varsity teams, who have slightly lower grade point aver-

Continued on Page B6, Column 3

Of Learning in College: Study Shows How Small Groups Do Better

Continued From Page Al

ages than non-athletes

eager" to use new technology like com-9Contrary to widespread belief, fac-ulty members are "willing, even standard courses. puters and videodisks, but their good essors are backed by an "expert" intentions usually work only when proin the use of technology in

of the men value advisers who will ported. By contrast, nearly three-quar-"take the time to get to know me perters of the women but only 30 percent tive suggestions," the researchers revisers who "make concrete and direcwomen said they wanted academic adthe study but less than a quarter of the how they study and what they expect rom college. Two-thirds of the men in 9Men and women contrast sharply in

As Teaching Was Faulted

and advisers." of women was "influenced far more by encounters and meetings with faculty personal relationships and by informal well they did academically, while that with college was closely tled to how male students' overall satisfaction The researchers also reported that

of growing public criticism of the qualcan colleges and universities. ty of undergraduate teaching at Amer-The seminars were created at a time

learned. knowledge to entering freshmen and to give similar follow-up tests to deteruniversities to give tests of general state, Missouri, are requiring public mine how much the students have

what students know in favor of deterrejected the idea of trying to determine dents do the best work. Instead of what the students know, the professors want mining the conditions under which stu-The Harvard Assessment Seminars

students "know" what college Trying to learn is very difficult.

cially with standardized tests. to measure at the college level, espeto know what makes the processes more effective. Trying to ascertain students' historical perspective and literary sensitivity, for instance, is difficult

Education authorities in at least one graduates, and questionnaires and logs much," it stated Participants split into eight sub-groups to conduct research on such teaching. Interviews were held with a topics as how to improve classroom random sample of 365 Harvard under-

colleges.

The major overall finding, Mr. Light said, was that "small changes in teaching format can lead to significant gains for students."

The researchers reported that students have "remarkably clear and coherent ideas" about the courses that they like and respect. They like courses that are "academically demanding" but also offer frequent opportunities to go along, the study said. revise and improve their work as they

papers and oral examinations will also WORK. proach, the study said, is most readily write papers — but quizzes, tests, brief applied in courses in which students back and criticism and then hand in a sion of their work, get detailed feedhave a chance to submit an early verinal version for a grade." Such an ap-They learn best, it found, "when they

The Smaller the Better

weeks later simply doesn't help as ing the same information two or three The report emphasized that a "quick turnaround" was imperative. "Receiv-

were kept by students on how they spent their time. dents who studied in groups of four to alone were compared with those of stu-The grades of students who studied

nars, about half of them from Harvard and the rest from more than 20 other More than 100 faculty members and

six. Invariably, the researchers reported, "students who study in small

groups do better than students study.

ing alone."

"Jesus and the Moral Life," Prof. Har-

For example, in Moral Reasoning 30,

vey Cox gives three lectures a week

about 20 each for another meeting led he then divides students into sections of

The Courses They Like

ulty members on hand various sessions showed that students took turns leading the group with facsessions made up of five students who in relatively small groups spoke more fered students the option of attending by graduate students to discuss that week's readings. In 1988, he also of-

bers organize study groups. The re-searchers said that "students should think twice if they find themselves in the larger groups. It was suggested that faculty mem

often, asked more questions and were

The report said videotapes of the

generally "more engaged" than those

spending all their study time working alone."

need to read things by myself to under applied math. "In studying the humanities, I don't find it useful, because I habwala, a junior who is majoring in out ideas, it helps you see different paths to a problem," said Sanjiv Kink. "When lots of people are throwing