TEN PRINCIPLES OF LEARNING: THE PRINCIPLE OF:

1. CONNECTEDNESS: Learning is fundamentally about making and

maintaining connections: biologically through neural networks;

mentally among concepts, ideas and meanings; and experientially

through interaction between the mind and the environment, self and

other, generality and context, deliberation and action.

2. A COMPELLING SITUATION: Learning is enhanced by taking place in

the context of a compelling situation that balances challenge and

opportunity, stimulating and utilizing the brain's ability to

conceptualize quickly and its capacity and need for contemplation and

reflection upon experiences.

3. AN ACTIVE SEARCH FOR MEANING: Learning is an active search for

meaning by the learner-- constructing knowledge rather than passively

receiving it, shaping as well as being shaped by experiences.

4. DEVELOPMENT AND HOLISM: Learning is developmental, a cumulative

process involving the whole person, relating past and present,

integrating the new with the old, starting from but transcending

personal concerns and interests.

5. SOCIAL INTERACTION: Learning is done by individuals who are

intrinsically tied to others as social beings, interacting as

competitors or collaborators, constraining or supporting the learning

process, and able to enhance learning through cooperation and sharing.

6. THE LEARNING CLIMATE: Learning is strongly affected by the

educational climate in which it takes place: the settings and

surroundings, the influences of others, and the values accorded to

the life of the mind and to learning achievements.

7. FEEDBACK AND USE: Learning requires frequent feedback if it is to

be sustained, practice if it is to be nourished, and opportunities to

use what has been learned.

8. INCIDENTAL LEARNING: Much learning takes place informally and

incidentally, beyond explicit teaching or the classroom, in casual

contacts with faculty and staff, peers, campus life, active social

and community involvements, and unplanned but fertile and complex

situations.

9. GROUNDEDNESS: Learning is grounded in particular contexts and

individual experiences, requiring effort to transfer specific

knowledge and skills to other circumstances or to more general

understandings and to unlearn personal views and approaches when

confronted by new information.

10. SELF-MONITORING: Learning involves the ability of individuals to

monitor their own learning, to understand how knowledge is acquired,

to develop strategies for learning based on discerning their

capacities and limitations, and to be aware of their own ways of

knowing in approaching new bodies of knowledge and disciplinary

frameworks.

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Joint Task Force on Student Learning final report

http://www.aahe.org/assessment/joint.htm

Powerful Partnerships: A Shared Responsibility for Learning

A Joint Report June, 1998

American Association for Higher Education

American College Personnel Association

National Association of Student Personnel Administrators

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available for purchase for a nominal fee. To order a single copy of the report or bulk quantities

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Despite American higher education's success at providing collegiate education for an unprecedented

number of people, the vision of equipping all our students with learning deep enough to meet the challenges

of the post-industrial age provides us with a powerful incentive to do our work better. People collaborate

when the job they face is too big, is too urgent, or requires too much knowledge for one person or group to

do alone. Marshalling what we know about learning and applying it to the education of our students is just

such a job. This report makes the case that only when everyone on campus -- particularly academic affairs

and student affairs staff--shares the responsibility for student learning will we be able to make significant

progress in improving it.

Collectively, we know a lot about learning. A host of faculty, staff, and institutional initiatives undertaken

since the mid-80s and supported by colleges and universities, foundations, government, and other funding

sources have resulted in a stream of improvement efforts related to teaching, curriculum, assessment, and

learning environments. The best practices from those innovations and reforms mirror what scholars from a

variety of disciplines, from neurobiology to psychology, tell us about the nature of learning. Exemplary

practices are also shaped by the participants' particular experiences as learners and educators, which is

why a program cannot simply be adopted but must be adapted to a new environment.

Despite these examples, most colleges and universities do not use our collective wisdom as well as they

should. To do so requires a commitment to and support for action that goes beyond the individual faculty or

staff member. Distracted by other responsibilities and isolated from others from whom they could learn about

learning and who would support them, most people on campus contribute less effectively to the development

of students' understanding than they might. It is only by acting cooperatively in the context of common

goals, as the most innovative institutions have done, that our accumulated understanding about learning is

put to best use.

There is another reason to work collaboratively to deepen student learning. Learning is a social activity,

and modeling is one of the most powerful learning tools. As participants in organizations dedicated to

learning, we have a responsibility to model for students how to work together on behalf of our shared

mission and to learn from each other.

On behalf of such collaboration, we, the undersigned members of this Joint Task Force on Student Learning,

offer the following report. It begins with a statement of the insights gained through the scholarly study of

learning and their implications for pedagogy, curricula, learning environments, and assessment. Each

principle is illustrated by a set of exemplary cooperative practices that bring together academic and student

affairs professionals to make a difference in the quality of student learning, a difference that has been

assessed and documented. The report ends with a call to all involved in higher education to reflect upon

these findings and examples in conjunction with their own and their colleagues' experience and to draw on

all these sources of knowledge as the basis for actions to promote higher student achievement.

-- Joint Task Force on Student Learning

Joint Task Force Members

Judith Berson

Associate Vice President for Student

Affairs

Broward Community College

David L. Potter (chair)

Provost

George Mason University

Susan Engelkemeyer

Professor

Babson College

Patrick T. Terenzini

Professor and Senior Scientist

Center on the Study of Higher Education

The Pennsylvania State University

Paul M. Oliaro

Vice President for Student Affairs

West Chester University of

Pennsylvania

Geneva M. Walker-Johnson

Dean of Student Life

Hartwick College

The Joint Task Force on Student Learning

gratefully acknowledges the contributions of the following:

Association Representatives

President

Contact

Margaret A. Miller

American Association for Higher

Education (AAHE)

Barbara Cambridge

Director, AAHE Teaching Initiatives,

AAHE

Lynn Willett

President, American College Personnel

Association (ACPA), and Vice

President, Student Affairs, Bridgewater

State College

Carmen Neuberger

Executive Director, ACPA

Jack Warner

National Association of Student

Personnel Administrators (NASPA)

and Vice Chancellor, Massachusetts

Board of Higher Education

Gwendolyn Dungy

Executive Director, NASPA

Resource Group

K. Patricia Cross

David Pierpont Gardner Professor of

Higher Education

University of California-Berkeley

Theodore J. Marchese

Vice President

AAHE

Jon C. Dalton

Vice President for Student Affairs

Florida State University

Shelia Murphy

Dean of Student Life

Simmons College

Dean L. Hubbard

President

Northwest Missouri State University

Dennis Roberts

Assistant Vice President for Student

Affairs

Miami University

George Kuh

Professor of Education

Indiana University Bloomington

William L. Thomas, Jr.

Vice President for Student Affairs

University of Maryland, College Park

# Powerful Partnerships A Shared Responsibility for Learning

The following ten principles about learning and how to strengthen it are drawn from research and practice and

provide grounds for deliberation and action. All those who participate in the educational mission of

institutions of higher education -- students, faculty, and staff -- share responsibility for pursuing learning

improvements. Collaborations between academic and student affairs personnel and organizations have been

especially effective in achieving this better learning for students. We advocate these partnerships as the best

way to realize fully the benefits of the findings.

Learning Principles and

Collaborative Action

1 Learning is fundamentally about making and maintaining

connections: biologically through neural networks; mentally among

concepts, ideas, and meanings; and experientially through interaction

between the mind and the environment, self and other, generality and

context, deliberation and action.

Rich learning experiences and environments require and enable students to make connections:

through learning materials that stimulate comparisons and associations, explore relationships,

evaluate alternative perspectives and solutions, and challenge students to draw conclusions from

evidence;

through opportunities to relate their own experience and knowledge to materials being learned;

through pedagogies emphasizing critical analysis of conflicting views and demanding that students

make defensible judgments about and demonstrate linkages among bodies of knowledge;

through curricula integrating ideas and themes within and across fields of knowledge and establishing

coherence among learning experiences within and beyond the classroom; and

through classroom experiences integrated with purposeful activities outside of class.

To make and maintain connections, faculty and staff collaborators design learning experiences

that:

expose students to alternative world views and culturally diverse perspectives;

give students responsibility for solving problems and resolving conflicts;

make explicit the relationships among parts of the curriculum and between the

curriculum and other aspects of the collegiate experience; and

deliberately personalize interventions appropriate to individual students' circumstances

and needs.

University of Maryland, College Park offers the College Park Scholars program, a two-year

living/learning opportunity for freshmen and sophomores. Students reside and attend most of

their classes within residence hall communities. Residence life staff, faculty, and other program

staff offices are in the halls. Student scholars live on floors corresponding to thematically linked

academic programs. For participating commuting students, access is provided to common areas

in host residence halls. The thematic programs deliberately connect what the students learn in

the classroom to the larger world through weekly colloquia, discussion groups, and field trips

dealing with related issues.

The scholars program has improved recruitment and retention of talented undergraduates and

has provided an enriched learning experience and a more personalized and human scale to

campus life. Faculty offices and classrooms within the residence halls lead to enhanced

interaction with faculty.

At University of Missouri, Kansas City, Supplemental Instruction and Video-Based

Supplemental Instruction help students make connections. Supplemental Instruction uses

peer-assisted study sessions to increase student academic performance and student retention

in historically difficult academic courses. In the sessions, students learn how to integrate

course content and develop reasoning and study strategies, facilitated by student leaders who

have previously succeeded in these courses and who are trained in study strategies and peer

collaborative learning techniques. The video-based program offers an alternative course

delivery system. Faculty offer courses on videotape and students enroll in a video section. A

facilitator guides review of the video lectures, stopping the tapes in mid-lecture to engage in

class discussions, integration, and practice of learning strategies.

More than three hundred studies nationally have documented the impact of supplemental

instruction, demonstrating its special impact on students with weak academic preparation. The

U.S. Department of Education designated supplemental instruction as an Exemplary Education

Program in 1982, noting its ability to increase academic achievement and college graduation

rates among students. Program staff at UMKC have further investigated the effects of this

instruction through the study of neurological processes. Using a Quantitative

Electroencephalography instrument, they have found evidence of improved brain electrical

activity in students who participate in the programs.

2 Learning is enhanced by taking place in the context of a compelling

situation that balances challenge and opportunity, stimulating and

utilizing the brain's ability to conceptualize quickly and its capacity

and need for contemplation and reflection upon experiences.

Presenting students with compelling situations amplifies the learning process. Students learn more when they

are:

asked to tackle complex and compelling problems that invite them to develop an array of workable and

innovative solutions;

asked to produce work that will be shared with multiple audiences;

offered opportunities for active application of skills and abilities and time for contemplation; and

placed in settings where they can draw upon past knowledge and competencies while adapting to new

circumstances.

To create compelling situations, faculty and staff collaborators:

articulate and enforce high standards of student behavior inside and outside the

classroom;

give students increasing responsibility for leadership;

create environments and schedules that encourage intensive activity as well as

opportunities for quiet deliberation; and

establish internships, externships, service-learning, study abroad, and workplace-based

learning experiences.

The First-Year Experience at the College of New Jersey is a collaboration between General

Education and Student Life. Students live in residence hall communities with a volunteer

non-resident faculty fellow for each floor. Faculty fellows, student life staff, and students plan

residence hall activities. Students also take an interdisciplinary core course, Athens to New

York, taught by full-time faculty and selected student life staff in residence hall classrooms, and

incorporating service-learning. Four questions drive the mission of the First-Year Experience:

What does it mean to be human? What does it mean to be a member of a community? What

does it mean to be moral, ethical, and just? and How do communities respond to differences?

Service-learning provides a compelling situation in which students can confront complex social

issues, apply their talents to marginalized communities, interact and work with diverse

populations, and enhance their career preparation.

Student service-learning journals show a clear understanding of the work of the course and its

objectives and core questions. Community agency staff provide feedback and guidance to

students, and the staffs' evaluations offer evidence that students learn about and contribute to

their communities. Students express high levels of satisfaction with the residence hall, the

classroom experience, workshops, field trips, and enrichment lectures associated with the core

course.

Community College of Rhode Island's 2+4 Service on Common Ground Program is part of the

college's extensive service-learning activities. Supported by funds from the Campus Compact

National Center for Community Colleges and the Corporation for National Service to develop

service-learning partnerships between community colleges and four-year institutions, the

college cooperates with Brown University's Center for Public Service. One joint project

connects the community college's nursing faculty and students with the university's medical

school faculty and students. Students work in many challenging situations to meet community

needs and discuss and write in journals observations and experiences that relate the activity to

their course of study and to social issues.

Student affairs staff began the program with a core team of five faculty. Now the collaborative

effort includes some fifty faculty who employ service-learning in more than a dozen academic

disciplines.

3 Learning is an active search for meaning by the learner --

constructing knowledge rather than passively receiving it, shaping as

well as being shaped by experiences.

Active participation by the learner is essential for productive learning, dictating that:

instructional methods involve students directly in the discovery of knowledge;

learning materials challenge students to transform prior knowledge and experience into new and

deeper understandings;

students be expected to take responsibility for their own learning;

students be encouraged to seek meaning in the context of ethical values and commitments; and

learning be assessed based on students' ability to demonstrate competencies and use knowledge.

To stimulate an active search for meaning, faculty and staff collaborators:

expect and demand student participation in activities in and beyond the classroom;

design projects and endeavors through which students apply their knowledge and

skills; and

build programs that feature extended and increasingly challenging opportunities for

growth and development.

Bloomfield College (New Jersey) offers the Student Advancement Initiative, curricular and

co-curricular experiences that develop student competencies in aesthetic appreciation,

communication, citizenship, cultural awareness, problem solving and critical thinking, science

and technology, and other professional skills. The program emphasizes computer-aided

self-appraisal for students and a student development transcript. The objectives are to involve

students actively in the assessment process, to provide continuous feedback to students on

their progress toward the competencies, and to strengthen programs based on aggregate

information about student achievement of the competencies.

Faculty and student affairs joint task forces have defined the competencies and linked them to

the general education program. Faculty draw upon student affairs staff expertise in designing

course assignments. Student portfolios and assessment information direct students toward

self-analysis and synthesis of theoretical and practical knowledge gained through the

curriculum and through developmental activities. Faculty and staff participate together in

"reflective practice" sessions to improve programming and administration.

DePaul University (Illinois) offers two writing-intensive interdisciplinary and experiential

programs for new students to ease the transition to the university. All first-year students enroll

in either Focal Point or Discover Chicago. Focal Point highlights an important event, person,

place, or issue and is taught using a multidisciplinary format. Students also enroll in a "common

hour" course where student affairs professionals help students evaluate their contributions to

shared learning, develop their study and decision-making skills, create a learning plan, and

reflect upon the nature of diversity at the university and in the city. Academic and student

affairs personnel are involved in curriculum development, the design of classroom experiences,

and student learning outside the classroom. Discover Chicago brings new students together a

week before the first term for a course team-taught by a faculty member, a professional staff

member, and a student mentor. The course investigates a particular topic using the city as a

learning site. The work of the course involves readings and discussions, visits to city locations,

and a community service project.

Assessments of the programs are designed to determine their impact on student retention and

include qualitative and quantitative pre- and post-test surveys, a standardized test (the College

Student Inventory) that is a predictor of student retention, syllabi review, and focus groups.

Results provide information about retention and staff-faculty partnering, student expectations

about the university and coursework, and the nature of assignments and forms of evaluation in

each program.

4 Learning is developmental, a cumulative process involving the

whole person, relating past and present, integrating the new with the

old, starting from but transcending personal concerns and interests.

The developmental nature of learning implies both a holistic and a temporal perspective on the learning

process. This suggests that:

any single learning experience or instructional method has a lesser impact than the overall educational

experience;

curricula should be additive and cumulative, building upon prior understandings and knowledge

toward greater richness and complexity;

intellectual growth is gradual, with periods of rapid advancement followed by time for consolidation, an

extended and episodic process of mutually reinforcing experiences;

the goals of undergraduate education should include students' development of an integrated sense of

identity, characterized by high self-esteem and personal integrity that extends beyond the individual to

the larger community and world; and

assessment of learning should encompass all aspects of the educational experience.

To create a developmental process integrating all aspects of students' lives, faculty and staff

collaborators:

design educational programs to build progressively on each experience;

track student development through portfolios that document levels of competence

achieved and intentional activities leading to personal development;

establish arenas for student-faculty interaction in social and community settings; and

present opportunities for discussion and reflection on the meaning of all collegiate

experiences.

Virginia Polytechnic Institute and State University attends to the overall health of students

through its Wellness Environment for Living and Learning. Students who participate make a

commitment to a substance-free lifestyle and residence environment. Faculty and student affairs

professionals co-teach a wellness forum, a one-credit course in the residence halls in which

undergraduate resident advisors also assist. Additional programming emphasizes social,

physical, intellectual, career, emotional, and spiritual purpose and philosophy. A student-run

community board enables students to develop programs and to take responsibility for

managing the housing experience. Campus speakers share personal experiences with substance

abuse and wellness issues, and faculty and student affairs staff relate their life experiences in

class discussions. The residential community, hall programs, and course curriculum encourage

students to reflect on past behaviors and to determine how new knowledge can assist them in

college and in developing holistic approaches to a healthy life.

Participation in the program has increased dramatically in two years, with a significant rate of

returning students and requests for additional residents. The first group of students had a

significantly higher grade-point average than a control group in the beginning semester of the

program.

University of Richmond (Virginia) provides a four-year experience at its women's residential

college, the Women Involved in Living and Learning Program. Participants enroll in an

interdisciplinary women's studies minor and in required gender-related educational programs.

Goals include increasing self-awareness, self-confidence, independence, and leadership

through structured educational experiences; stimulating critical thinking and analysis about

gender roles and relationships; nurturing and promoting student potential and talent; fostering

awareness and acceptance of difference; and providing students with curricular and

co-curricular opportunities to inform and enhance academic, career, and life choices. The

professional program coordinator works closely with the women's studies faculty to plan course

offerings, serves on its advisory board, and teaches courses. Students complete a supervised

internship and attend monthly membership meetings of a student-run organization and

sponsored events that complement program goals. Events form the basis for discussion and

reflection in the courses and informally in the residence halls.

Wellesley College's Center for Research on Women recently completed an assessment of this

program using course effectiveness instruments, an annual survey to determine the overall

impact, a self-esteem measure, an alumnae survey to evaluate the long-term program impact, and

student focus groups. Results confirm the cumulative and developmental effects on

participants. The study found the greatest effect on those who completed all four years of the

program. Students and alumnae of the program speak of the transformational aspects of their

involvement, the ways they learned to think critically that benefit them in diverse situations,

their ability to question their own world views, and their tolerance of different viewpoints.

Alumnae of the program express greater satisfaction with their undergraduate experience than

non-program alumnae.

5 Learning is done by individuals who are intrinsically tied to others

as social beings, interacting as competitors or collaborators,

constraining or supporting the learning process, and able to enhance

learning through cooperation and sharing.

The individual and social nature of learning has the potential for creating powerful learning environments

that:

take into account students' personal histories and common cultures;

feature opportunities for cooperative learning, study, and shared research;

cultivate a climate in which students see themselves as part of an inclusive community;

use the residential experience as a resource for collaborative learning and for integrating social and

academic life;

use school, work, home, and community as resources for collaborative learning and for integrating

social and academic life; and

give students a chance to fathom and appreciate human differences.

To relate individuals to others as social beings, faculty and staff collaborators:

strive to develop a campus culture where students learn to help each other;

establish peer tutoring and student and faculty mentorship programs;

sponsor residence hall and commuting student programs that cultivate student and

faculty interaction for social and educational purposes; and

support activities that enable students from different cultural backgrounds to experience

each other's traditions.

The Program on Intergroup Relation, Conflict, and Community at the University of Michigan,

Ann Arbor offers undergraduate coursework and co-curricular programming in several

departments, emphasizing intergroup relations and using a variety of pedagogical approaches.

Beginning as a faculty initiative, the program is managed and funded by the College of

Literature, Science, and the Arts and the Division of Student Affairs. Program features include:

first-year departmental course seminars, linked through a faculty seminar and taught by

faculty seminar and taught by faculty and student affairs teams and incorporating

out-of-classroom experiences designed to build communities of students beyond the

individual seminars;

Intergroup Dialogues, two-credit courses bringing together students from social

identity groups for intensive peer-facilitated dialogues based on integrated readings,

discussions, and experiential exercises;

facilitator training and practicum courses for Intergroup Dialogue leaders;

advanced courses in intergroup relations in sociology and psychology;

consultation and workshops by program staff working with university departments and

offices, training programs for staff and organizations, and special campus events;

a resource center on intergroup relations equipped with books, articles, and videos on

related topics.

A current study of the program assessed a course that included required Intergroup Dialogues.

The study found that the course increased students' structured thinking about racial and ethnic

inequality, enabled them to apply this thinking more generally to social phenomena not

explicitly covered in the course, and affected the kinds of actions students advocated in

intergroup conflicts.

Portland State University (Oregon) faculty developed their general education program using

research on student learning and retention and working with student affairs professionals with

expertise in student learning, group dynamics, peer facilitation, and the development of

community and feelings of inclusion. The program emphasizes the integration of both affective

and cognitive modes of learning into all aspects of its classes. It strives to overcome the limited

opportunity for informal learning and casual interaction characteristic of urban, commuter

campuses. Features of the program include:

CityQuest, an orientation program designed as an activity in a freshman general

education course;

a "leadership cluster" of multidisciplinary upper-division courses on leadership fulfilling

general education requirements;

student affairs fellows who teach in the "freshman inquiry" and "senior capstone"

courses;

Metro Initiative, cooperative agreements with regional community colleges that connect

academic support services and general education coursework across all institutions;

Capstone, a collaboration to facilitate service-learning within the general education

curriculum; and

Student Snapshot, a student affairs newsletter with information about students to help

faculty understand students' lives.

Since implementation of the program, student retention between the first and second year has

increased, the institution has developed a better sense of who its students are, and it has

information on which aspects of students' learning experiences are more or less effective.

Faculty are now more likely to request assistance with students from student affairs staff and to

involve the staff in teaching program courses.

6 Learning is strongly affected by the educational climate in which it

takes place: the settings and surroundings, the influences of others,

and the values accorded to the life of the mind and to learning

achievements.

The educational climates in which learning occurs best:

value academic and personal success and intellectual inquiry;

involve all constituents -- faculty, students, staff, alumni, employers, family, and others -- in

contributing to student learning;

make student learning and development an integral part of faculty and staff responsibilities and

rewards;

incorporate student academic performance and development goals into the educational mission, and

assessment of progress toward them into unit performance.

include subcommunities in which students feel connected, cared for, and trusted.

To construct an effective educational climate, faculty and staff collaborators:

build a strong sense of community among all institutional constituencies;

organize ceremonies to honor and highlight contributions to community life and

educational values;

publicly celebrate institutional values;

articulate how each administrative and academic unit serves the institution's mission;

and

share and use information on how units are performing in relation to this mission.

The Youth in Transition Program of James Madison University (Virginia) introduces

academically underprepared minority students to college life beginning in the summer prior to

their freshman year. Students are supported by an intensive, nurturing educational

environment in which they can overcome prior negative learning experiences and develop new

ways to succeed in academics. The program, offered jointly by university faculty and the Office

of Multicultural Student Services, continues throughout the school year. Students receive

ongoing academic support, educational enrichment opportunities, and mentors. Academic

progress is monitored continuously. Faculty and student affairs staff work as an instructional

team, with faculty teaching basic mathematics and writing skills and staff teaching study skills

and time management and addressing issues of independence and self-confidence. Students

live together in residence halls to establish peer relationships and work with their advisors

through all four years of college.

A study of program participants tracked their academic progress over a one-year period.

Results showed an increase in the proportion of minority students in good standing over the

course of the year and a decrease in the number placed on suspension. Further analysis

indicated that a significant proportion of those placed on suspension were later able to return to

good standing.

New Century College of George Mason University (Virginia) coordinates Collaborations:

Partnerships for Active Communities, a combination of programs designed to place students in

diverse educational settings. "Adventure learning" courses, which fulfill the college's

requirement for experiential learning, include the Chesapeake Bay Program and the Bahamas

Environmental Research Center, where students engage the natural environment firsthand and

learn about ecology in the broadest sense, including the people and cultures that shape the

environment. Courses contain both a classroom component and a co-curricular final project.

Students also can enroll in skill-based short courses, in learning communities that connect

classroom study with life experiences, or in an alternative spring break through which they

contribute to and learn about communities they serve. Students are encouraged to reflect on

their experiences by developing portfolios representative of their work, providing

documentation of work in progress, and presenting evidence of self-reflection on how their

learning experiences have evolved.

Comparisons show that students who have participated in these programs have higher

retention rates, academic performance, and satisfaction with college life than do

non-participants.

7 Learning requires frequent feedback if it is to be sustained,

practice if it is to be nourished, and opportunities to use what has

been learned.

The importance to learning of feedback, practice, and use of knowledge and skills mandates that students be:

expected to meet high but achievable standards and provided timely information on their progress

toward meeting them;

engaged in a recurring process of correction and improvement;

encouraged to take risks and learn from mistakes;

taught how to be constructive critics of each other's work;

required to demonstrate their learning accomplishments through active problem solving, applying

concepts to practical situations;

refining skills through frequent use; and

asked to test theory against practice and refine theory based on practice.

To provide occasions to use and practice what has been learned, faculty and staff collaborators:

recruit students with relevant academic interests as active participants and leaders in

related campus life programs and activities;

organize work opportunities to take advantage of students' developing skills and

knowledge;

collaborate with businesses and community organizations to match students to

internship and externship experiences that fit their evolving educational profiles; and

develop student research and design projects based on actual problems or cases

presented by external organizations to be resolved.

Iowa State University's College of Design and Department of Residence have created together

the Design Exchange, a living and learning experience to promote academic success. The

Exchange houses design students together in a learning community that includes a design

studio and computer laboratory. The studio is available twenty-four hours a day and serves as

the site of bi-weekly sessions ranging from academic survival skills to portfolio development.

Sessions are facilitated by faculty, student affairs, and residence assistance staff; upper-class

design students serve as peer mentors and advisors, role models, and programmers. Efforts are

made to offer out-of-class activities that extend classroom learning, and to encourage informal

interaction among faculty, staff, and students. First-semester survival programs are followed by

more intentional faculty involvement in the second semester, during which they discuss with

students such issues as design portfolios and career development. The program allows

students to create design projects and receive continual feedback from peers and teachers. The

studio space encourages this sharing on a cooperative rather than a competitive basis.

Preliminary data from a study comparing Exchange students with a control group suggest that

students enrolled in the program have higher grade-point averages than design students not

involved in the learning community. Students in the program also report higher levels of

satisfaction with the university, a greater sense of community, and improved ability to work

collaboratively to find solutions to curricular and social issues. Students surveyed cite frequent

feedback and living together as major benefits of the program.

The undergraduate division of the Wharton School of the University of Pennsylvania has a

mission to educate students to become broad-minded, articulate, and effective leaders in the

global marketplace. Its course on leadership and communication in groups is a collaboration

between student and academic affairs designed to serve this mission. It features community

service projects that provide opportunities to develop and refine leadership skills both inside

and outside the classroom. Other cooperative experiential activities over the course of students'

four-year experience include leadership retreats, mentoring programs, skill-building workshops,

a leadership lecture series, the management of forty student clubs and organizations, and

student-run conferences. The academic and student service partnership is supported by team

advisors, trained to offer both academic advice and peer counseling. The collaboration also

works to temper the highly competitive business school culture and to foster cooperative

community and college leaders.

Student surveys show appreciation for the school's ability to meet their needs for leadership

skills. Students evaluate the leadership retreats highly. In addition, students from the school

serve an already large and increasing proportion of leadership positions in the university's

student organizations.

8 Much learning takes place informally and incidentally, beyond

explicit teaching or the classroom, in casual contacts with faculty and

staff, peers, campus life, active social and community involvements,

and unplanned but fertile and complex situations.

Informal and incidental learning is enhanced by:

activities beyond the classroom that enrich formal learning experiences;

an institutional climate that encourages student interaction related to educational issues;

mentorship relationships on and off campus;

chances for students to meet faculty and staff in a variety of settings and circumstances; and

student participation as volunteers and active citizens in the broader community.

To facilitate informal and incidental learning, faculty and staff collaborators:

sponsor programs for students, faculty, and staff that serve both social and educational

purposes;

organize community service and service-learning activities performed by faculty, staff,

and students together;

design campus life programs that relate directly to specific courses;

link students with peers and with faculty, staff, and community mentors; and

build common gathering places for students, faculty, and staff.

The First-Year Program at the College of the Holy Cross (Massachusetts) is a thematically

based academic experience for about one-fourth of the first-year class. Each year a new theme is

built around the question "How then shall we live?" by connecting that question to a specific

issue. The theme gives an explicit ethical focus to the year and is the touchstone for all other

components of the program, including a pair of first-year courses extending through both

semesters, a two-semester common reading program, a variety of co-curricular events with

faculty and students, and a common residency experience. The intellectual community

associated with the program encompasses classroom, studio, laboratory, performance space,

faculty offices, and residence hall. The program extends into all aspects of students' lives,

connecting the learning experience with fundamental questions about how to live, to be part of

a community, and to make moral choices. The intent is to provide shared experiences that

embrace the entire first-year environment and in so doing to provide a framework that promotes

informal learning.

Student interviews and institutional records show high levels of participation in class

discussion and co-curricular events, extensive discussions outside the classroom, and a strong

sense of community in the residence halls. Compared with other students, First-Year

participants had fewer alcohol-related incidents, received higher grades, and were more likely to

assume campus leadership positions, to participate in honors and study abroad programs, and

to be active in community programs.

The University of Missouri, Columbia creates Freshmen Interest Groups of students enrolled in

the same sections of three general education courses, living in the same residence halls (usually

on the same floor), and enrolled in a one-semester seminar. The seminar is designed to help

students integrate material from the general education courses and to facilitate informal

discussions on issues covered in the courses. The program's objectives are to make the campus

psychologically small by creating peer reference groups of students, to integrate purposefully

curricular and co-curricular experiences, to stimulate early registration for related courses, and

to encourage faculty to integrate course content and activities across their disciplines. Faculty

and staff jointly plan the program, coordinate in- and out-of-classroom activities, and champion

desired outcomes and assessment strategies to evaluate the impact of the learning experience.

Shared projects and events associated with the courses are especially important for promoting

opportunities for discussion. Peer advisors reinforce this learning, serve as study leaders, and

use team-building approaches to increase interest group cohesion. Residence halls have been

renovated to offer group study space, classrooms, and computer laboratories.

In comparison with other freshmen, students in the Freshmen Interest Groups demonstrate

higher levels of interaction and involvement in college life in the first and second years, greater

intellectual content in their contacts with faculty and other students, better performance in

general education courses, higher grade-point averages, and higher freshmen-to-sophomore

retention rates.

9 Learning is grounded in particular contexts and individual

experiences, requiring effort to transfer specific knowledge and skills

to other circumstances or to more general understandings and to

unlearn personal views and approaches when confronted by new

information.

The grounded nature of learning requires that students:

encounter alternative perspectives and others' realities;

grapple with educational materials that challenge conventional views;

confront novel circumstances that extend beyond their own personal experiences and that require the

application of new knowledge or more general principles; and

share freely with others experiences that have shaped their identities.

To transform learning grounded in particular contexts and individual experiences into

broader understandings, faculty and staff collaborators:

sponsor events that involve students with new people and situations;

champion occasions for interdisciplinary discourse on salient issues;

foster dialogues between people with disparate perspectives and backgrounds; and

expand study abroad and cultural exchange programs.

St. Lawrence University (New York) strives for a learning environment that integrates

multicultural perspectives, influences, and ideas throughout the curriculum and the campus

community. In its First-Year Program, students live together in residential colleges and take an

intensive, year-long, interdisciplinary, team-taught thematic course in communication. Faculty

members work with student affairs staff to ensure that the living and learning nature of the

program encourages students to reflect on course themes, conflicts arising in the residence

hall, and connections between the themes and living experiences. A "residential curriculum" is

organized by residential coordinators, college assistants, and faculty to discuss in class and in

the colleges both predictable and unique stresses in the residence communities. A residential

education committee plans events and designs interventions to address student problems and

conflicts. Students are expected to think through and resolve conflicts associated with

differences in background, in behavior within the residence halls, and in academic perspectives.

In doing so, students explore each other's personal histories, respond to others' views, and

examine the relationship between individual perspectives and knowledge-based approaches.

Detailed evaluation forms ask students about the impact of living with people enrolled in a

common course, the communication and research skills learned, the effects of the

multidisciplinary, team-taught course, and the coverage of residential issues. Data indicate that

residential goals and communications skills are being achieved. Students are positive about

living with others who share their academic and personal experiences and appreciate having

faculty involved in their residential lives.

University of Wisconsin, Whitewater has a mission to serve students with disabilities and has

had a formal program to provide services for these students for nearly thirty years. Instructional

staff accommodate students with disabilities in classrooms, labs, field work, internships,

student teaching, and the workplace. A new work experience project offering academic credit

has received exceptional support from faculty and students. The project brings staff into close

contact with faculty, and staff work with the State Vocational Rehabilitation Agency to organize

the experience. For many severely and multiply disabled students, the work is one of the first

successful validations of their capacity to succeed and to establish a strong identity. Efforts are

focused on matching students' needs with a work environment complementing their

educational background and likely to ensure success. The work is an intensive individual

experience; however, the individual learning is tied directly to interaction with others in the

workplace at several levels. It helps to provide self-definition as a person and to delineate a role

and status within the task group. The combination of the workplace routine, supervisory and

peer feedback, and the duties of the position offer opportunities for growth and for eliminating

non-functional behaviors. The program has proved particularly important for individuals whose

learning styles are not conducive to transfer of knowledge from one context to another.

At the university, students with disabilities are retained at a significantly higher rate than the

institutional average for all students, and they obtain employment at exceptional rates. These

results compare remarkably well with national studies of retention and employment rates for

disabled students.

Bowling Green State University (Ohio) created its Chapman Learning Center as a "think tank for

learning," to experiment with new pedagogies and program structures to engage students in

classroom and outside-the-classroom activities. A freshmen residential program, the Center

involves faculty from several disciplines, each with offices in the residence hall, a hall director

and junior tutors who work with faculty on required anchor courses, elective courses, and a

common learning day. Classes are thematically linked in two anchor courses each semester, and

center on difficult social issues during the first term and on aesthetics and imagination during

the second. Freshmen composition courses are linked to these disciplinary courses. Community

events are planned to relate directly to the course themes. Teaching practices emphasize

interactive, experiential activities, learning experiences outside the classroom, critical thinking

about challenging issues, and support for learning by residential staff. Classes are small, to

enable faculty to offer frequent written and verbal feedback on in-class and out-of-class

assignments. Students are encouraged to examine personal beliefs and values in relation to

broader perspectives on social issues, and peer-mediated discussions of social controversies

are featured.

Chapman students show disproportionate satisfaction and adjustment to college life when

compared with other freshmen. They feel less lonely, are more actively involved in their classes,

experience more faculty approval, and are more willing to approach faculty.

10 Learning involves the ability of individuals to monitor their own

learning, to understand how knowledge is acquired, to develop

strategies for learning based on discerning their capacities and

limitations, and to be aware of their own ways of knowing in

approaching new bodies of knowledge and disciplinary frameworks.

To improve the ability of individuals to monitor their own learning requires that faculty and staff:

assist students in understanding the elements and structures of learning and the standards for

learning achievements;

help students understand their relative strengths and weaknesses in learning;

ask students to observe and record their own progress in learning;

use multiple pedagogies suited to the content or skills to be learned and reaching students with

different approaches to learning;

tailor education to the individual learner rather than exclusively providing mass-delivered

presentations;

use educational technologies as a tool for collaborative learning and encourage reticent students to

participate;

cultivate students' desire to know what they do not know; and

continue to learn what factors affect student cognition and learning and to design learning

experiences responsive to learning differences.

To enable students to monitor their own learning, faculty and staff collaborators:

help them delineate and articulate their learning interests, strengths, and deficiencies;

reduce the risk to students of acknowledging their own limitations;

help students select curricular and other educational experiences covering a broad range

of learning approaches and performance evaluations; and

create faculty and staff development activities to learn about advances in learning

theory and practice.

The Western College Program of Miami University, Oxford (Ohio) is an interdisciplinary

residential college featuring a core curriculum in the liberal arts for students' first two years. In

their junior year, students are provided opportunities to take greater responsibility for and to

monitor, their learning through individually designed upper-level interdisciplinary programs of

study and a year-long senior project based on all four years of study. Completed senior projects

are publicly presented using a professional conference format and including faculty

respondents from outside the college who have not worked with the students. Faculty and

student affairs staff collaborate to fuse the living and study experience and to challende and

support students as they pursue their core and self-designed studies.

The Student Affairs Assessment Committee, comprised of student, academic and business

affairs staff, documents the impact that the university is having on students inside and outside

the classroom. Measures include quantitative, nationally normed outcome assessment

instruments and qualitative evaluations based on student interviews, free writing, focus groups,

portfolios of student work, and ethnographies.

The vice presidents for academic and student affairs at William Rainey Harper College (Illinois)

established a joint "Statement of Student Success" that endorses two concepts: all students

have the right to succeed, and the college has the right to uphold high standards for

achievement. Based on this statement, the college established a program to support students at

this two-year open-door college with academic preparation and counseling services as a way to

meet the college's standards and to help them attain success. The college developed five

standards of academic performance, established requirements for entry into college-level

courses based on level of preparation as determined by entrance tests, and coupled these

actions with an "intrusive intervention" program administered by the student development

office. The intervention program monitors student course taking and grades. Through

computerized tracking and human interaction, students receive information on their progress

and work with faculty and staff to create personalized success contracts. These contracts

include academic, personal, developmental, and social strategies to assist students making

decisions about college and careers. Individual students' strategies are recorded and tracked

through a computerized interface with the registration system, allowing possible restrictions to

course loads or future registrations, or triggering further interventions when performance falls

below standards. Interventions are made by faculty and staff, and students are asked to assess

their own performance and to learn ways to use the support system to assist them.

Survey results over the years document that at-risk students enrolled in the intervention

program have a clear understanding of the academic system, know what factors result in low

grades, have reasonable plans to improve their performance, and believe the required

interventions will have a positive impact on their future academic success.

What We Have Learned

Collaborative Futures in Support of Learning

The evolving principles of learning, continually informed by future advances in our understanding and

knowledge of the learning process, hold great promise for improved student learning. By applying these

principles to the practice of teaching, the development of curricula, the design of learning environments, and

the assessment of learning, we will achieve more powerful learning. Realizing the full benefit of these

applications depends upon collaborative efforts between academic and student affairs professionals -- and

beyond. It will require attention and action by all those affiliated with our institutions as well as by members of

the larger community concerned with higher education to ensure that we achieve our mission of increased

higher learning.

We call all those who serve the goals of learning to contribute to these collaborations. We ask that:

Students take charge of their own learning and organize their educational programs to include a broad

array of experiences both inside and outside the classroom; become aware of the cumulative nature of their

education, and consequently plan and monitor their development; and establish personal relationships with

faculty and staff as an essential part of their education.

Faculty become masters of cognitive studies; develop pedagogy and curricula that draw upon and

embody learning principles; become involved in all aspects of their institution's community life; and work in

partnership with staff and community supporters to create learning activities based on the learning principles.

Scholars of cognition share their findings widely with faculty colleagues and higher

education audiences and be attentive in their writings to the application of new findings to the conduct of

teaching and learning.

Administrative leaders rethink the conventional organization of colleges and universities to

create more inventive structures and processes that integrate academic and student affairs; align institutional

planning, hiring, rewards, and resource allocations with the learning mission; offer professional development

opportunities for people to cooperate across institutional boundaries; use evidence of student learning to

guide program improvement, planning and resource allocation; and communicate information on students' life

circumstances and culture to all members of the college or university community.

Student affairs professionals and other staff take the initiative to

connect to each other and to academic units; develop programs that purposefully incorporate and identify

learning contributions; and help students to view their education holistically and to participate fully in the life

of the institution and the community.

Alumni reflect upon how what they learned in college contributed to their life after graduation and share

these observations with current students and institutional officials; provide learning opportunities and

mentorships outside the classroom for students; and contribute financial support to programs offering

students the chance to use their knowledge in a variety of settings.

Governing boards understand the learning enterprise and how the institution conducts it; ask

senior managers for information on how the organizational structure supports learning and for evidence of

learning outcomes; and reward contributions to learning through promotion and tenure decisions and in

evaluation of the president.

Community supporters volunteer workplace and other organizational venues for student

learning; team with faculty and staff to design learning experiences in the community or workplace; serve as

supervisors and mentors for student learning activities; evaluate student performance and provide models of

reflective practice in their own professions; and help colleges and universities to understand the skills and

knowledge needed by their graduates.

Accrediting agencies require in their review processes evidence of how institutions

integrate learning experiences across administrative units and demand measures of learning effectiveness.

Professional associations disseminate best practices of collaboration on behalf of

student learning in their programs, publications, and awards; exemplify the importance of partnerships for

learning by establishing cooperative programs with other associations; and emphasize learning as a field of

knowledge essential for graduate students planning careers in colleges or universities.

Families help students select a college or university based on its commitments to learning and student

development and its learning environment; encourage students to choose and participate in a comprehensive

program of educational activities throughout their collegiate experience; and help students to understand the

value of reflection and to find time for concentrated study in their complicated lives.

Government agencies sponsor research and development on learning; offer incentives to

institutions for new initiatives focused on collaboration for learning; and require evidence of institutional

assessment of learning.

All those involved in higher education, as professionals or

as community supporters, view themselves as teachers, learners, and collaborators in

service to learning.