A Selected Bibliography of References to Cooperative Education in Two-Year and Four-Year Colleges and Universities.

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Handbook of Cooperative Education; Sandwich Courses

Designed primarily to serve professionals who are interested or involved in the field of college-level cooperative education, this bibliography, with brief annotations for some entries, emphasizes college programs in both 2- and 4-year schools. Stress has been given to business and liberal arts programs. Cooperative education vocational and technical schools has not been covered. The bibliography cites books, journal articles, articles from the "Handbook of Cooperative Education," articles from other sources, and "Sandwich Courses" and their development in higher education. (DB)
A SELECTED BIBLIOGRAPHY OF REFERENCES TO COOPERATIVE EDUCATION
IN TWO-YEAR AND FOUR-YEAR COLLEGES AND UNIVERSITIES

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FOREWORD

This bibliography is designed primarily to serve professionals newly interested in or entering the rapidly expanding field of college level cooperative education. Hopefully, it will also be of help to coordinators, administrators, faculty, students, employers and others who may already be involved but wish to deepen their understanding and extend their knowledge of cooperative education—which, according to Cross (1973), is "one of the most rapidly growing major curricular innovations of the 1970's."

Special acknowledgment, for the headstart afforded me in preparation of this selected bibliography, is extended to Dr. Joseph E. Barbeau, Associate Professor of Education at Northeastern University, whom I met while attending a week-long coordinator training workshop in Boston during March, 1974.

For the section of the bibliography dealing with the "Sandwich Plan" (as cooperative education is called in England), I am indebted to Col. James Grant of Newcastle Upon Tyne Polytechnic (now retired), who wrote the chapter on the Sandwich Plan in Asa Knowles' HANDBOOK OF COOPERATIVE EDUCATION (1971). I had the pleasure of meeting and consulting with him in January, 1974, during a week's tour of Sandwich Programs at four polytechnics throughout England which he kindly helped to arrange.

Emphasis throughout this bibliography has been placed on college programs—both for two-year and four-year schools. Cooperative education programs in Vocational and Technical schools has not been covered, nor have 'co-op ed' programs in high schools. Stress has been on business and liberal arts programs as opposed to engineering and professional school programs. Many of the references cited would, of course, be common to all of these other facets, but each has a wide literature of its own which has not been selected for reference here.

New Statewide Program in Wisconsin

My own active involvement in cooperative education began in September, 1973, when, with assistance and encouragement from Allan F. Hershfield, Assistant Chancellor for Program Development for the UW Center System, James M. Pannier and I developed the idea of a state-wide 'Careership Program' to be initiated first at the UW Center-Barron County at Rice Lake and then on a phased basis extended throughout the state via the other 13 two-year campuses that together comprise the UW Center System. Work is nearly completed on our planning grant which the US Office of Education funded in October, 1973, and the Careership Program will enter the operational phase this fall under a USOE implementation grant. (Approved July, 1974)
Since the University of Wisconsin Center System of 14 two-year campuses is second only to the University of Wisconsin-Madison campus as the largest educator of freshmen and sophomore college students in the state, it is logical for the Center System campuses to function as coordination points in this new cooperative education network as it expands statewide from the pilot Careership Program already underway at the UW Center in Rice Lake.

Following the operational blueprint laid out in the planning grant, each of the two-year campuses will establish close contacts with the four-year campuses to which most of its students will be transferring so that students selecting the 'co-op' option of the Careership Program will be passed along personally on a prearranged track.

Students normally can expect to transfer up to 72 credits; this should now include up to 6 semester hours of lower division Careership elective credits; and include 4 semester hours of upper division Careership credit accepted as part of the student's requirements for his major or minor. Learning contracts for the upper division credit will require approval by the four-year professor as well as the initiating professor at the two-year campus.

It is hoped that this new statewide network will enhance and strengthen a number of excellent programs already in existence at various of the 13 four-year colleges in Wisconsin...perhaps providing the stimulus for what may become "The Wisconsin Consortium" in cooperative education.

The National Perspective

A significant shift in the way college students are trained for life careers is taking place on college campuses throughout the US. An increasing number of schools are offering what is called "cooperative education"--which involves alternating periods of earning and learning and the integration of classroom work with practical experience on a job. Cooperative education is one of the most rapidly growing major curricular innovations of the 1970's. (Cross, 1973)

In fact, cooperative education programs are growing so rapidly on both two-year and four-year college campuses as to be a veritable explosion. In 1960 there were only 35 programs; by 1971 there were 225 (Knowles, 1971). Only two years later there were over 350, of which 40 percent were two-year college programs. Predictions are that this will more than double by the mid-1970's. Wilson (1974) estimated that operational programs this year would exceed 500, which taken together with nearly 300 programs in the planning grant state totals 800 involving about 30 percent of all college campuses in the nation.
Though the rate of growth of cooperative education has escalated sharply in recent years, a dual root structure dates back many years--to 1906 when the first college program began at the University of Cincinnati in engineering; and to 1921 at Antioch College at Yellow Springs, Ohio, which broadened the concept beyond engineering to all fields of study including liberal arts. (Lupton, 1973).

Over three-quarters of all programs in existence in 1972 were established after 1960. (Wilson, 1972) And one out of five of these were established in a single year, 1971-72. The proportion of programs of recent origin is, of course, increasing owing to the rapid initiation of new programs cited above.

The consensus now is that 'co-op' education is applicable in every field--from engineering and business administration where it first took hold... through nursing, architecture, law and other professionally oriented vocations... to the natural sciences, psychology, education, English, literature, history, philosophy... where it has not been found necessary or desirable always to seek a direct tie-in with a specific vocation or career.

R. H. Brownlee


Bennett, Ron L. Educational Work Experiences in Cooperative Education. San Mateo, (two-year college) California. Action-Link Educational Systems, 1973. 1/415/349-5284. Excellent...use for orientation classes to orient students prior to work assignments or to run concurrently as a reinforcement of on-the-job learning. $3.95 paperback, 154 pages multilith, 8½ x 11. Also in preparation (July, 1974) a film strip plus kit to be published through Wiley. Deals with community college cooperative education and secondary school programs. Valuable are fifty case studies. Focus attempts to bridge the gap between vocational and transfer programs.


Buttery, William A. Business and Industry Guide. For the use of the businesses and industries participating in the Cooperative Education Industrial Internship 499
and G499 of the College of Industry, UW-Platteville, Wisconsin. Forty-five pages, mimeographed. A discussion of the co-op agreement, administrative details, placement and evaluation procedures. Includes copies of application and evaluation forms.

Buttery, William H. A Comparative Study of the Evaluation of Collegiate Cooperative Education Coordinator Functions. Arizona State University, a doctoral dissertation to determine whether or not collegiate coordinators evaluate their coordinating functions in the same way as the corporate counterparts with whom they worked. 131 pages, $7.25, available from NEU Clearinghouse 0172.


Chapman, Elwood N. Work Experience Survival Kit. Pacific Palisades, California: Goodyear Publishing Company, 1973. 1/213/459-2733. Excellent instructional materials which might be considered for adoption in either "career orientation" or "practicum" classes to prepare students for work assignments and to reinforce work-period learning experiences.


Cooperative Education Association, Journal of Cooperative Education. (All issues since 1964.) Drexel University, Philadelphia, Pennsylvania 1904. This is the only professional journal in the field of co-op education. Through the May, 1974 issue, a total of 18 issues have been published. First issue was November, 1964. No spring issues were published until April, 1967, and from then on twice a year in May and November. Copies of all issues are available at Instructional Materials Center at Teacher Education Building, 225 North Mills Street, University of Wisconsin, Madison, Wisconsin 53706.


Dawson, J.D. Faculty Involvement in Cooperative Education. Unpublished document, April, 1972.


ERIC (stands for Educational Resources Information Center) Now located within National Institute of Education (NIE), Washington, D.C. Access to ERIC network of document announcement and retrieval service can be made at IMC (Instructional Materials Center, Teacher Education Building, 225 North Mills Street, University of Wisconsin, Madison, Wisconsin 53706).

The ERIC Clearinghouse on Higher Education abstracts and indexes the current research literature on higher education for publication in the National Institute for Educational's monthly volume, Research in Education (RIE). Readers who wish to order ERIC documents cited in the bibliography should write to the ERIC Document Reproduction Service, Post Office Drawer O, Bethesda, Maryland 20014. When ordering, please specify the ERIC document (ED) number. Unless otherwise noted, documents are available in both microfiche (MF) and hard/photocopy (HC). All microfiche titles cost $0.65; hard/photocopy reproduction costs $3.29 per 100 pages. All orders must be in writing and payment must accompany orders of less than $10.00.


Heermann, Barry. Cooperative Education in Community Colleges. San Francisco: Jossey-Bass, 1973. (Discusses seven or eight models; five or six good ones.) One of three best and most recent source books in the field. (See also Asa Knowles, et al., HANDBOOK and K. Patricia Cross INTEGRATION OF LEARNING AND EARNING) 219 pages, HC $8.75. Authoritative and practical focus on community (two-year) colleges, themselves still growing very rapidly, and the explosive growth of cooperative education programs within this type of institution.


An excellent source for cooperative education coordinators, students, admin-
istrators, and counselors and all others interested in advising young
people on various careers. A wealth of information is also included to guide
the reader wishing to update his reading in Educational Models and Programs
for the Future. A 'must' in the library of every serious practitioner,
educator, and student of education.

Henderson, Algo D., and Hall, Dorothy. Antioch College. Harper Brothers Publisher,
1946.

One of the "classics" in cooperative education in terms of history,
philosophy, and values. Though out of print, copies may possibly be
obtained from Antioch College Bookstore, Yellow Springs, Ohio 45387.
(cited in Brown, R.L., Co-op Ed. 1971)

Hunt, Don. Fifty Views of Cooperative Education. University of Detroit (Barbara Reid
at Northeastern), 71 pages, 8½ x 11 mimeographed.
The "Views" represent the summarizations of the presentations of leading
faculty and employers who participated in four one-week Institutes on
Administrative Training in Co-op Ed. conducted by the Midwest Center for
Co-op Ed. at University of Detroit during 1972-73. Of special note are
the employers' contributions and the diversity of opinion including
disagreements among expert practitioners. Well worth reading by anyone
starting a new cooperative education program. Good source of practical
ideas.

The single most outstanding and authoritative guidebook in the field.
A must read for anyone in this field, entering it or wishing to get a
comprehensive overview of cooperative education in the United States,
Canada, and England. 386 pages HC, 21 contributing authors.

Law, Gordon F. Cooperative Education: Handbook for Teacher-Coordinators. Chicago:
Sixty-four pages, paperback, high school level--vocational slant.

1/904/644-6591. Co-op ed has been extended to every campus in the State
of Florida. Lucas is the state director of the program. The paperback,
115-page multilith report was compiled under a USOE grant and is a rich
source of practical aids for development of new programs--especially
during the first two years. Contains a number of sample forms, questionnaires,
etc.

Lupton, D. Keith. "Cooperative Education and Institutional Change,": Let the Entire
Community Become Our University, Washington, D.C.: Acropolis Books, Ltd., 1973,
Philip C. Ritterbush, Editor, pp. 129-150.

Lupton, D. Keith. The Student in Society. Totowa, New Jersey: Littlefield, Adams,
A widely read and much used classic addressed to the cooperative student
and over his shoulder to all others involved in cooperative education.

Mason, R.E., and Haines, P.G. Cooperative Occupational Education. Danville, Illinois:

One of "the classics." Though now out of print, might possibly be able to obtain a copy from Cincinnati Bookstore, Cincinnati, Ohio.


V.P. Emeritus of Antioch, good to help sell program to faculty and administrators. Also available through ERIC, ED 053 689, MF $0.65, HC $3.29.


$1.00 per copy; paperback, multility, 120 pages. A thoroughly professional guide for coordinators. Concise, authoritative, and very useful. Many examples of forms in appendices. Reflects the Northeastern approach and so must, of course, be adapted to individual programs as needed. A must for any new coordinator.


Though it does not deal specifically with cooperative education, which is not 'an issue'--this book is an excellent overview of the educational environment changes taking place within which cooperative education will be functioning as we move into the 1980's. See K. Patricia Cross's chapter on New Students in a New World, pp. 87-95. Rest of book passim.


Paperback, 27 pages, 8½ x 11, approximately 170 listings. This clearinghouse apparently is not part of the ERIC network.


One of the "classic" studies which established a foundation for much further research which can be found under Wilson in various issues of the Journal of Cooperative Education -- see especially the Annual Surveys.


Dawson, J.D. How Cooperative Education can Enhance Special Services Programs for Disadvantaged Students in Colleges and Universities. Unpublished document, December 1970.


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(Asa Knowles, Editor)

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A very comprehensive and valuable guide to the literature of sandwich courses; by far the best and most comprehensive source.


2. Guides

Council for National Academic Awards. Compendium of degree courses. An annual publication which is a complete guide to sandwich courses currently sponsored by CNAA.

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