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ABSTRACT

This bibliography is intended primarily for current awareness on the topic of postsecondary agricultural education teaching materials, methods, and curricula, and as the title of the series implies, is not an indepth exhaustive bibliography on the subject. It is derived from a computerized search of the AGRICOLA database. The search strategy used such key words as postsecondary or higher education, teaching methods, and teaching materials. Each of the 271 entries follows this format: National Agricultural Library call number; title; author; publisher or source; pagination, illustrations, and publication date; language; descriptors; and abstract. Author and subject indexes are appended. (YLB)

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National Agricultural Library

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ISSN: 1052-5378

Agricultural Education (Postsecondary): Teaching Materials, Methods and Curricula

January 1990 - March 1994

QB 94-03

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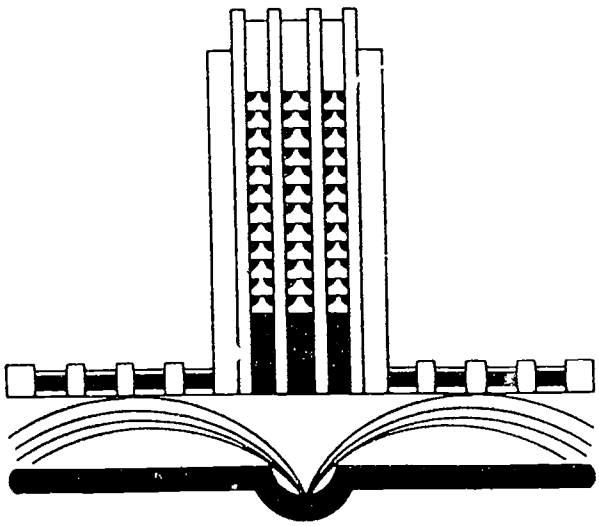

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Agricultural Education (Postsecondary): Teaching Materials, Methods and Curricula

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271 citations in English from AGRICOLA

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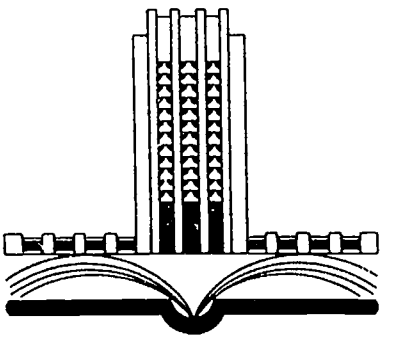

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2. Postsecondary education – Bibliography. I. Tit .
aZ5071.N3 no.94-03

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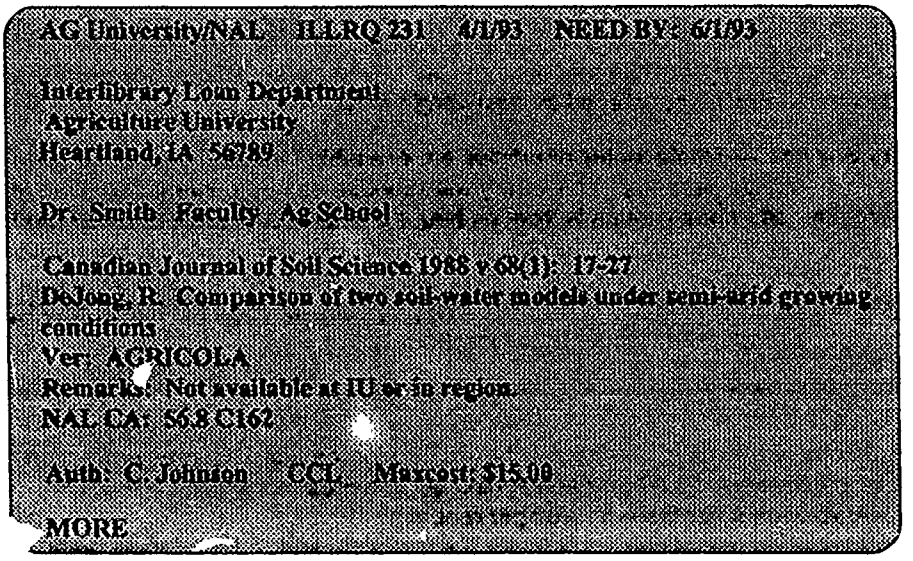
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Canadian Journal of Soil Science 1988 v 68(1): 17-27
DeJong, R. Comparison of two soil-water models under semi-arid growing conditions
Ver: AGRICOLA
Remarks: Not available at IU or in region.
NAL CA: S6.8 C162

Auth: C Johnson CCL Maxcost: $15.00

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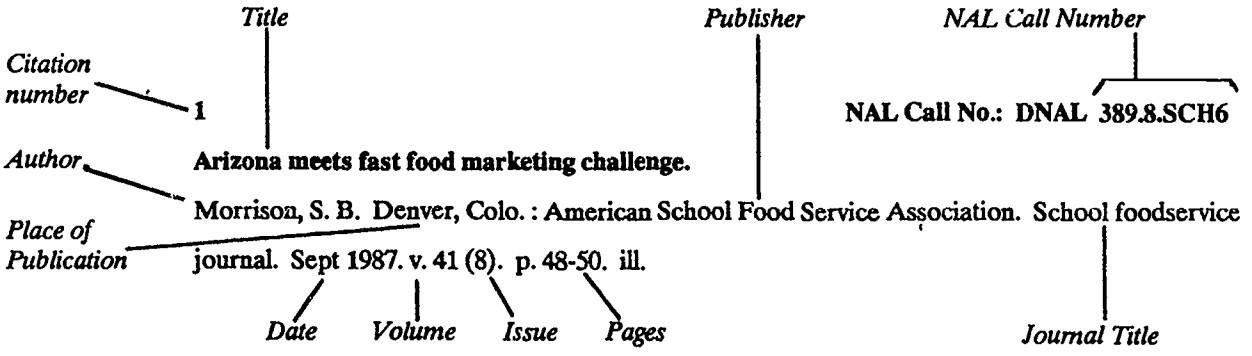

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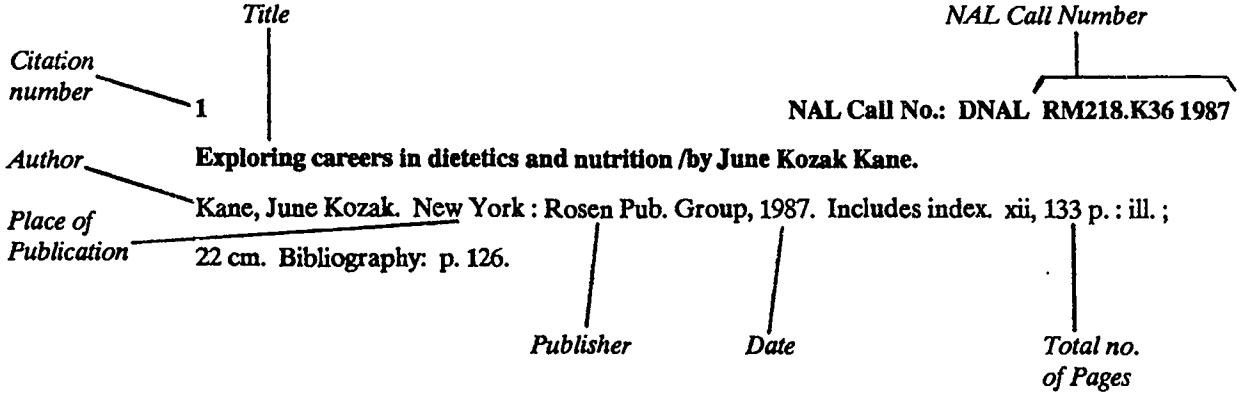

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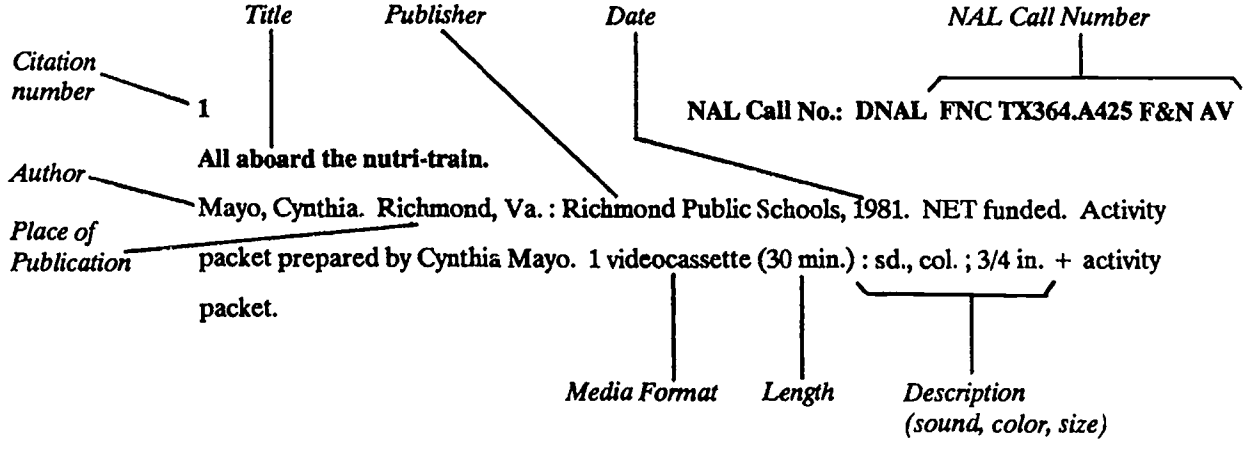

Agricultural Education (Postsecondary):
Teaching Materials, Methods and Curricula
January 1990-March 1994

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S4	40144	EDUCAT? OR SH=(C000 OR C100 OR T100 OR U500)
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S6	915	JN=NACTA JOURNAL? OR CA=275.9 N213 OR JN=THE CHRONICLE OF HIGHER EDUCATION? OR CA=LB2300.C5 OR JN=ILLINOIS TEACHER OF HOME ECONOMICS? OR CA=LB1025.I4? OR JN=THE AMERICAN BIOLOGY TEACHER? OR CA=QH1.A43
S7	633	JN=JOURNAL OF AGRICULTURAL EDUCATION? OR CA=S530.A4 OR JN=JOURNAL OF AGRONOMIC EDUCATION? OR CA=S530.J6 OR JN=JOURNAL OF NATURAL RESOURCES AND LIFE SCIENCES EDUCATION?
S8	1024	JN=JOURNAL OF NUTRITION EDUCATION? OR CA=TX341.J6 OR JN=JOURNAL OF VETERINARY MEDICAL EDUCATION? OR CA=SF601.J62
S9	100	JN=(JOURNAL OF RESEARCH IN RURAL EDUCATION? OR RESEARCH IN RURAL EDUCATION?) OR CA=LC5146.R47 OR JN=JOURNAL OF RURAL AND SMALL SCHOOLS? OR CA=LB1567.J68
S10	67	JN=RURAL SPECIAL EDUCATION QUARTERLY? OR CA=LC5146.R87
S11	40708	S4 OR S5 OR S6 OR S7 OR S8 OR S9 OR S10
S12	9510	S3 AND S11
S13	5364	(STUDY(1N)TEACHING OR (TEACH???(W)(AID? ? OR METHOD? OR MATERIAL? ?)) OR CURRICUL?)/TI,DE,ID
S14	1627	(EDUCATION??(W)METHOD? OR INSTRUCT?(W)MATERIAL? ? OR COMPUTER(W)ASSISTED(W)INSTRUCTION)/TI,DE,ID
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S16	1819	S12 AND S15
S17	830073	SF=(OTHER FOREIGN OR FAO) OR CA=(FU OR NBU) OR JN=AG IN THE CLASSROOM? OR CA=S533.A35 OR SH=T120 OR IL=(ELEMENTARY OR JUNIOR HIGH)
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S24	10628	(NURSE? ? OR PHYSICIAN? ? OR PATIENT? ? OR SUPERVISOR? ? OR PRACTITIONER? ? OR HOSPITAL? ? OR DIETITIAN? ?)/DE,AB
S25	1941	DRUG(W)EDUCATION? OR GERIATRIC(W)EDUCATION? OR DIABETES(W)MELLITUS OR DIABETIC(W)CLIENT??? OR OUTPATIENT? ? OR AIDS(W)DISEASE? ?
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S28	696	S20 NOT (S21 OR S22 OR S23 OR S24 OR S25 OR S26 OR S27)
S29	694	S28/ENG
S30	292	S29/1990:1994

Agricultural Educational (Postsecondary Teaching Materials, Methods, and Curricula)

1 NAL Call No: HD101.S6
1890 Institution in a changing socioeconomic environment: implications for human resource development.
Jones, D.; Parks, A.L.
Experiment, Ga. : The Association.
Southern journal of agricultural economics - Southern Agricultural Economics Association v. 22 (1): p. 57-68; 1990 Jul. Paper presented at the annual meeting of the Southern Agricultural Economics Association, February 3-7, 1990, Little Rock, Arkansas. Discussion by J.A. Allen, p. 65-68. Include references.

Language: English

Descriptors: U.S.A.; Educational institutions; Roles; Change; Socioeconomic status; Blacks; Human resources; Curriculum; Program development

2 NAL Call No: 275.9 N213
Addition of an international option to an undergraduate agronomy program.
McKenna, J.R.
Urbana, Ill. : National Association of Colleges and Teachers of Agriculture.
NACTA journal v. 35 (1): p. 14-17; 1991 Mar. Includes references.

Language: English

Descriptors: Virginia; Agronomy; College curriculum; Agricultural colleges; Graduate study

3 NAL Call No: 275.8 AG8
Advisory committees and program restructuring.
Connors, J.; Dado, G.; Siler, P.
Henry, Ill. : The Magazine.
The Agricultural education magazine v. 64 (12): p. 11-12; 1992 Jun. Includes references.

Language: English

Descriptors: Agricultural education; Advisory committees; Curriculum; Educational reform; Program development

4 NAL Call No: S103.E2A37
Ag 2003-agroecosystems: a basis for life.
Vincent, H.
Stillwater, Okla. : The Station.
Agriculture at OSU - Oklahoma State University, Agricultural Experiment Station v. 23 (1): p. 14-15; Spring 1993.

Language: English

Descriptors: Oklahoma; Agricultural education; Environmental education; Higher education; Ecosystems; Curriculum

5 NAL Call No: 275.9 N213
Agricultural business curricula.
Beck, R.L.
Urbana, Ill. : National Association of Colleges and Teachers of Agriculture.
NACTA journal v. 34 (3): p. 12; 1990 Sep. Paper presented at the 36th Annual NACTA Conference, June 17-20, 1990, Morrisville College, Morrisville, N.Y.

Language: English

Descriptors: U.S.A.; Agricultural education; Businesses; College curriculum

6 NAL Call No: HD101.S6
Agricultural economics programs at 1890 institutions: current status and future directions.
McDowell, D.R.; Evans, S.H.
Experiment, Ga. : The Association.
Southern journal of agricultural economics - Southern Agricultural Economics Association v. 22 (1): p. 47-60; 1990 Jul. Paper presented at the annual meeting of the Southern Agricultural Economics Association, February 3-7, 1990, Little Rock, Arkansas. Discussion by L.C. Polopolus, p. 57-60. Includes references.

Language: English

Descriptors: U.S.A.; Agricultural economics; Educational institutions; Curriculum; Program development; Program evaluation; Blacks; Legislation; Surveys; History

7 NAL Call No: HT401.A36
Agricultural economists, human capital, and economic development: how colleges of agriculture can assist.
Waelti, J.J.
Gainesville, Fla. : Humanities and Agriculture, University of Florida.
Agriculture and human values v. 7 (3/4): p. 95-100; Summer/Fall 1990. In the series analytic: Food, social theory, and agricultural science policy. Includes references.

Language: English

Descriptors: Human resources; Agricultural colleges; Agricultural economics; College curriculum; Economic development; Graduate study

8 NAL Call No: 275.8 AG8
Agricultural education· First twenty-five years of the third millennium.
Powers, L.; Walson, F.
Henry, Ill. : The Magazine.
The Agricultural education magazine v. 63 (12): p. 9-11; 1991 Jun. Includes references.

Language: English

Descriptors: U.S.A.; Agricultural education; Biotechnology; Teacher training; Curriculum; Program development; Educational planning; Educational resources; Leadership; Public schools

9 NAL Call No: 275.8 AG8
Agricultural education, 2025.
Riesenberg, L.E. (ed.)
Henry, Ill. : The Magazine.
The Agricultural education magazine v. 63 (12): p. 4, 7, 17; 1991 Jun.

Language: English

Descriptors: U.S.A.; Agricultural education; Public schools; Universities; Curriculum

10 NAL Call No: 290.9 AM32P
Agricultural engineering curriculum at Texas A&M.
Sweat, V.E.
St. Joseph, Mich. : The Society.
Paper - American Society of Agricultural Engineers (90-5513): 14 p.; 1990. Paper presented at the "1990 International Winter Meeting sponsored by The American Society of Agricultural Engineers," December 18-21, 1990, Chicago, Illinois.

Language: English

Descriptors: Texas; Agricultural engineering; College curriculum; Food engineering; Forestry engineering; Biochemistry

11 NAL Call No: 290.9 AM32P
Agricultural engineering curriculum at Virginia Tech.
Dillaha, T.A.
St. Joseph, Mich. : The Society.
Paper - American Society of Agricultural Engineers (90-5509): p. 1-11; 1990. Paper presented at the "1990 International Winter Meeting sponsored by The American Society of Agricultural Engineers," December 18-21, 1990, Chicago, Illinois. Includes references.

Language: English

Descriptors: Virginia; Agricultural engineering; College curriculum; Recruitment

12 NAL Call No: 275.9 N213
Agricultural literacy: providing a framework for agricultural curriculum reform.
Frick, M.J.; Kahler, A.A.; Miller, W.W.
Urbana, Ill. : National Association of Colleges and Teachers of Agriculture.
NACTA journal v. 36 (1): p. 34-37; 1992 Mar. Includes references.

Language: English

Descriptors: U.S.A.; Agricultural education; Literacy; Curriculum; Educational reform

13 NAL Call No: 275.8 AG8
Agricultural mechanics: a vanishing curriculum.
Miller, G.
Henry, Ill. : The Magazine.
The Agricultural education magazine v. 64 (4): p. 4, 23; 1991 Oct.

Language: English

Descriptors: Agricultural education; Farm machinery; Mechanics; Golf courses; Lawns and turf

14 NAL Call No: 275.8 AG8
Agricultural mechanization , time to teach teams.
Harper, J.G. (ed.)
Henry, Ill. : The Magazine.
The Agricultural education magazine v. 63 (8): p. 5, 23. ill; 1991 Feb.

Language: English

Descriptors: U.S.A.; Agricultural education; Teaching methods; Teamwork; Group interaction; Learning experiences; Problem solving

15 NAL Call No: 275.8 AG8
Agricultural mechanization: a model of technology transfer.
Harper, J.G. (ed.)
Henry, Ill. : The Magazine.
The Agricultural education magazine v. 63 (12): p. 8, 15; 1991 Jun.

Language: English

Descriptors: U.S.A.; Agricultural education; Mechanization; Spraying; Sprayers; Instruction; Technology transfer; Teaching materials; Public schools; Universities

16 NAL Call No: 275.9 N213

Agricultural mechanization knowledge and skills needed by students of agriculture.
Harrison, J.D.; Schumacher, L.G.; Birkenholz, R.J.
Urbana, Ill. : National Association of Colleges and Teachers of Agriculture.
NACTA journal v. 37 (1): p. 54-55; 1993 Mar. Includes references.

Language: English

Descriptors: Missouri; Agricultural education; Agricultural engineering; Curriculum; Surveys; Teachers

17 NAL Call No: 275.8 AG8
Agricultural mechanization: visions and choices.
Harper, J.G.
Henry, Ill. : The Magazine.
The Agricultural education magazine v. 64 (6): p. 5, 8; 1991 Dec.

Language: English

Descriptors: Agricultural education; Teaching methods

18 NAL Call No: S671.A66
Agricultural safety: effective teaching strategies and technological solutions.
Lehtola, C.J.; Boyd, M.M.
St. Joseph, Mich. : American Society of Agricultural Engineers.
Applied engineering in agriculture v. 8 (4): p. 433-437; 1992 Jul. Includes references.

Language: English

Descriptors: Safety at work; Occupational hazards; Agricultural engineering; College curriculum; Technical progress; Problem solving

Abstract: The Department of Agricultural and Biosystems Engineering at Iowa State University has offered a course in agricultural safety since 1972. Iowa State University is one of a small number of universities involved in teaching agricultural safety as a credited course. Students were required - identify hazards at their farm or workplace and develop a solution to eliminate a hazard. Many technological solutions were developed and presented by students. Technological solutions were also developed to assist people with disabilities who wish to continue farming. This article indicates there is a need for technology to take an active and participatory role in the reduction of agricultural accidents. The place to begin developing technological solutions is by including agricultural safety as a part of both the engineering and mechanization curricula.

19 NAL Call No: 290.9 AM32P
Agricultural systems management curriculum at Texas A&M.
Sweat, V.E.; Stout, B.A.
St. Joseph, Mich. : The Society.
Paper - American Society of Agricultural Engineers (90-5514): 11 p.; 1990. Paper presented at the "1990 International Winter Meeting sponsored by The American Society of Agricultural Engineers," December 18-21, 1990, Chicago, Illinois.

Language: English

Descriptors: Texas; Agricultural education; College curriculum; Management education; Systems

20 NAL Call No: S530.J6
Agriculture clubs: extending mutual interests.
Aide, M.T.; Ellis, W.E.
Madison, Wis. : American Society of Agronomy.
Journal of agronomic education v. 20 (1): p. 37-40; Spring 1991. Includes references.

Language: English

Descriptors: Missouri; Agriculture; Clubs; Universities; Learning; Teaching methods; Objectives; Program effectiveness

21 NAL Call No: S530.J6
Agriculture in the classroom enhances college agricultural curriculum while benefitting community.
Foster, E.F.; Schmidt, V.; Mariga, I.K.; Jones, T.R.; Lovejoy, R.; Lobsiger, T.; Schwab, P.; Scovill, C.
Madison, Wis. : American Society of Agronomy.
Journal of agronomic education v. 19 (2): p. 175-178; Fall 1990. Includes references.

Language: English

Descriptors: Michigan; Agriculture; Teaching; College curriculum

22 NAL Call No: 275.8 AG8
Agriscience: good for students or just a charade.
Gliem, J.A
Henry, Ill. : The Magazine.
The Agricultural education magazine v. 64 (4): p. 11-12, 23; 1991 Oct. Includes references.

Language: English

Descriptors: Agricultural education; Curriculum;

Biotechnology; Physics; Mathematics

23 NAL Call No: 275.8 AG8
AgriScience in agricultural mechanics?
Lawver, D.E.; Fraze, S.
Henry, Ill. : The Magazine.
The Agricultural education magazine v. 64 (9): p. 10-11; 1992 Mar.

Language: English

Descriptors: Agricultural education; Biology; Chemistry; Teaching methods

24 NAL Call No: 275.8 AG8
Agriscience program stimulates student inquiry and problem-solving.
Whent, L.; Greenler, R.M.
Henry, Ill. : The Magazine.
The Agricultural education magazine v. 64 (2): p. 19, 22-23; 1991 Aug.

Language: English

Descriptors: Brassica campestris; Problem solving; Agricultural education; Teaching methods

25 NAL Call No: S530.J6
The agronomy crops garden as a multipurpose facility.
Ball, D.M.; Mitchell, C.C. Jr; Mask, P.L.; Johnson, W.C.
Madison, Wis. : American Society of Agronomy.
Journal of agronomic education v. 20 (1): p. 23-27; Spring 1991. Includes references.

Language: English

Descriptors: Alabama; Agronomy; Crops; Gardens; Teaching materials; College curriculum; Educational resources; Program development; Program effectiveness

26 NAL Call No: 99.8 F768
Airphoto interpretation skill needs.
Meyer, M.P.; Hackett, R.L.
Bethesda, Md. : Society of American Foresters.
Journal of forestry v. 88 (12): p. 10-15. ill; 1990 Dec. Includes references.

Language: English

Descriptors: Forestry; Aerial photography; Job skills; College curriculum; Training; Surveys

27 NAL Call No: QL55.H8
Alternative methods to teach veterinary surgery.
Bauer, M.S.; Seim, H.B. III
Washington Grove, MD : Psychologists for the Ethical Treatment of Animals.
Humane innovations and alternatives v. 6: p. 401-404; 1992. Includes references.

Language: English

Descriptors: Animals; Teaching methods; Veterinary education; Animal welfare; Surgery

28 NAL Call No: HQ1.F36
Alternative paradigms for helping families change themselves.
Morgaine, G.A.
Minneapolis, Minn. : The National Council on Family Relations.
Family relations v. 41 (1): p. 12-17; 1992 Jan. Includes references.

Language: English

Descriptors: Family life education; Curriculum; Educational objectives

29 NAL Call No: SF601.J62
Alternative to live animals for teaching veterinary surgery.
Bauer, M.S.
Blacksburg, Va. : The Association of American Veterinary Medical Colleges.
Journal of veterinary medical education v. 19 (1): p. 32; Winter 1992. Letter to the editor.

Language: English

Descriptors: U.S.A.; Veterinary education; Surgery; Skills; Teaching methods; Animal welfare; Animal testing alternatives; Cadavers; Clinical experience

30 NAL Call No: S530.J6
Alumni opinions on recruitment and curriculum in agronomy.
Davis, M.; Bacon, R.K.; Beyrouty, C.A.
Madison, Wis. : American Society of Agronomy.
Journal of agronomic education v. 20 (1): p. 40-42; Spring 1991. Includes references.

Language: English

Descriptors: Arkansas; Agronomy; Graduates; Opinions; College curriculum; Employment opportunities; Educational reform

31 NAL Call No: SF601.J62
Animal welfare and societal concerns: an interdisciplinary curriculum.
Glickman, N.W.; Glickman, L.T.; Torrence, M.E.; Beck, A.M.

Blacksburg, Va. : The Association of American Veterinary Medical Colleges.
Journal of veterinary medical education v. 18 (2): p. 60-63; Fall 1991. Includes references.

Language: English

Descriptors: U.S.A.; Animal welfare; Ethics; Veterinary education; College curriculum

32 NAL Call No: 280.8 J822
An animated instructional module for teaching production economics with 3-D graphics.
Debertin, D.L.
Ames, Iowa : American Agricultural Economics Association.
American journal of agricultural economics v. 75 (2): p. 485-491; 1993 May. Includes references.

Language: English

Descriptors: Production economics; Microcomputers; Teaching methods; Graphic arts; Computer software

Abstract: An animated instructional module is described for illustrating key production economics concepts. The module uses three-dimensional production surface, and two-dimensional contour maps. Two graphics programs are used together to construct diagrams that two dimensional neither program could produce alone. Module sequences are based on the "classical" two-factor, one-output model, using a production function consistent with textbook diagrams. Although primarily for upper-division undergraduate or beginning graduate production economics courses, the instructional module provides a useful instructional supplement for advanced students. A free disk copy of the module for use on a personal computer is available from the author.

33 NAL Call No: 280.8 J822
Application of computer graphics to undergraduate instruction in agricultural economics.
Debertin, D.L.; Jones, L.D.
Ames, Iowa : American Agricultural Economics Association.
American journal of agricultural economics v. 73 (1): p. 25-35. ill; 1991 Feb. Includes references.

Language: English

Descriptors: Kentucky; Agricultural economics; College curriculum; Computer assisted instruction; Computer graphics; Microcomputers; Teaching methods; Innovation adoption; Evaluation; University research

Abstract: This article outlines are experience in building a freshman-level course in agricultural economics employing computer graphics imaging. Lecture material is displayed with a computer connected to a large-screen projector producing high-resolution graphics. The complete course consists of approximately 1,200 computer-generated text, chart, or graphics images. An evaluation of the new method was conducted. Results indicate that most students prefer lectures that employ computer graphics to those that use a chalkboard or an overhead projector. Evidence supports the hypothesis that students perform better on exams when the innovations described in this paper are adopted.

34 NAL Call No: 275.8 AG8
Are you teaching science principles on just skills in your agricultural mechanics program.
Gliem, J.
Henry, Ill. : The Magazine.
The Agricultural education magazine v. 64 (9): p. 12-14; 1992 Mar.

Language: English

Descriptors: Agricultural education; Agricultural sciences; Teaching methods

35 NAL Call No: SB1.H6
Assessing multidisciplinary team training for integrating horticulture and nutrition.
Caldwell, J.S.; Prehm, M.S.
Alexandria, Va. : American Society for Horticultural Science.
HortScience v. 25 (10): p. 1296-1299; 1990 Oct. Includes references.

Language: English

Descriptors: Virginia; Horticulture; Nutrition education; Educational methods; Interdisciplinary research; College curriculum; Educational innovation; Teaching methods; Farming systems research

36 NAL Call No: 424.8 AM3
An assortment of timely and practical beekeeping videotapes, a review.
Ambrose, J.T.
Hamilton, Ill. : Dadant & Sons.
American bee journal v. 131 (5): p. 325-327; 1991 May.

Language: English

Descriptors: North Carolina; Beekeeping; Teaching materials; Videotapes

37 NAL Call No: S530.A4
Attributes and attitudes of students enrolled in agricnlture off-campus videotaped courses.
Miller, G.; Honeyman, M.
Carbondale, IL : [American Association of Teacher Educators in Agriculture], 1989-.
Journal of agricultural education v. 34 (4): p. 85-92; Winter 1993. Includes references.

Language: English

Descriptors: Agricultural education; Postsecondary education; College students; Attitudes; Educational courses; Videotapes; Teaching methods

38 NAL Call No: 49 J82
Basic science and applied science instruction: are they compatible?
Harmon, B.G.
Champaign, Ill. : American Society of Animal Science.
Journal of animal science v. 70 (8): p. 2590-2592; 1992 Aug. Includes references.

Language: English

Descriptors: Agricultural education; Agricultural sciences; Applied research; College curriculum; Zoology

Abstract: Basic science and applied science instruction are compatible and essential for animal science professionals to succeed in their chosen career. Application of science is a continuum. Although production methods are constantly evolving, the science on which changes are made is fixed and fundamental. Only our understanding changes. We are educating students in preparation for a lifelong learning process. Viability of animal science departments depends on attracting and challenging students with curricula that are demanding, create curiosity, and prepare students to understand the "whys and hows" of the phenomena of animal biology.

39 NAL Call No: S530.J6
Biological engineering: a new discipline for the next century.
Tao, B.Y.
Madison, Wis. : American Society of Agronomy.
Journal of natural resources and life sciences education v. 22 (1): p. 34-38; Spring 1993. Includes references.

Language: English

Descriptors: Biology; Engineering; College curriculum; Universities; Core curriculum; Educational innovation

40 NAL Call No: 290.9 AM32P
Bio-resource engineering, and expanded curriculum.
Soule, H.M.; Christensen, T.E.; Riley, J.G.
St. Joseph, Mich. : The Society.
Paper - American Society of Agricultural Engineers (90-5512): 10 p.; 1990. Paper presented at the "1990 International Winter Meeting sponsored by The American Society of Agricultural Engineers," December 18-21, 1990, Chicago, Illinois.

Language: English

Descriptors: Maine; Agricultural education; Curriculum; Agricultural engineering; Food engineering; Aquaculture

41 NAL Call No: S530.J6
Block diagrams and soil profile characteristics in soil genesis and classification courses.
Edinger, S.B.; Lund, L.J.
Madison, Wis. : American Society of Agronomy.
Journal of agronomic education v. 20 (2): p. 86-92; Fall 1991. Includes references.

Language: English

Descriptors: U.S.A.; Agricultural education; Soil morphology; Soil morphological features; Soil formation; Soil classification; Soil science; Teaching methods

42 NAL Call No: SF601.J62
Bone models of pathological conditions used for teaching veterinary orthopedic surgery.
Johnson, A.L.; Harari, J.; Lincoln, J.; Farmer, J.A.; Korvick, D.
Blacksburg, Va. : The Association of American Veterinary Medical Colleges.
Journal of veterinary medical education v. 17 (1): p. 13-15; Spring 1990. Includes references.

Language: English

Descriptors: U.S.A.; Veterinary education; Orthopedics; Deformities; Bones; Models; Teaching methods; Instruction; Surgery; Animal testing alternatives

43 NAL Call No: 275.9 N213
A cafeteria for learning.

Stegelin, F.E.
Urbana, Ill. : National Association of Colleges and Teachers of Agriculture.
NACTA journal v. 36 (2): p. 43-44; 1992 Jun. Includes references.

Language: English

Descriptors: Educational courses; College curriculum; Needs assessment

44 NAL Call No: 275.9 N213
A capstone problem solving/systems course at a two-year technical college.
Zimmerman, A.P.
Urbana, Ill. : National Association of Colleges and Teachers of Agriculture.
NACTA journal v. 35 (1): p. 26-29; 1991 Mar. Includes references.

Language: English

Descriptors: College curriculum; Technical training; Problem solving; Systems approach

45 NAL Call No: S530.J6
A case for case study.
Simmons, S.R.; Crookston, R.K.; Standford, M.J.
Madison, Wis. : American Society of Agronomy.
Journal of natural resources and life sciences education v. 21 (1): p. 2-3; Spring 1992. Includes references.

Language: English

Descriptors: Case studies; Decision making; Agricultural education; Teaching methods; Editorials

46 NAL Call No: 275.9 N213
A case study: Georgia to Georgia.
Ames, G.C.W.
Urbana, Ill. : National Association of College and Teachers of Agriculture.
NACTA journal v. 37 (4): p. 8-11; 1993 Dec. Includes references.

Language: English

Descriptors: Republic of georgia; Georgia; Educational resources; Agricultural economics; Teaching methods; Agribusiness; Environmental management; Educational objectives; Universities; Case studies

47 NAL Call No: SF601.J62
Changing social ethics on animals and veterinary medical education.
Rollin, B.E.
Blacksburg, Va. : The Association of American Veterinary Medical Colleges.
Journal of veterinary medical education v. 17 (1): p. 2-7; Spring 1990. Comments by A. Schwartz on p. 6-7.

Language: English

Descriptors: U.S.A.; Veterinary education; Laboratory animals; Teaching methods; Animal experiments; Ethics; Moral values; Animal welfare; Animal testing alternatives

48 NAL Call No: 275.8 AG8
Changing the mission of agricultural education through curriculum modification.
Iverson, M.J.; Robinson, B.F. Jr
Henry, Ill. : The Magazine.
The Agricultural education magazine v. 62 (8): p. 20-23; 1990 Feb. Includes references.

Language: English

Descriptors: Maryland; Agricultural education; Educational reform; Curriculum

49 NAL Call No: S33.E2
A class project in information transfer: an effective application of learning by doing.
Kirts, C.A.
Fairbanks, Alaska : The Station.
Agroborealis - Alaska Agricultural and Forestry Experiment Station, University of Alaska-Fairbanks v. 22 (1): p. 35-39; 1990 Jan. Includes references.

Language: English

Descriptors: Alaska; Agricultural education; Teaching methods; Practical education; Educational innovation; Work teams

50 NAL Call No: 275.8 AG8
The classroom and CD-ROM technology.
Kirby, B.M.
Henry, Ill. : The Magazine.
The Agricultural education magazine v. 64 (12): p. 17-18; 1992 Jun.

Language: English

Descriptors: Agricultural education; Computer assisted instruction

51 NAL Call No: 275.8 AG8
Classroom techniques, toward a contemporary application of problem solving.

Straquadine, G.S.; Egelund, J.
Henry, Ill. : The Magazine.
The Agricultural education magazine v. 65 (2): p. 21-23; 1992 Aug. Includes references.

Language: English

Descriptors: Problem solving; Agricultural education; Teaching methods

52 NAL Call No: 275.9 N213
College freshman to sophomore longitudinal study suggests positive classroom influence on value formation.
Reisner, A.; Walter, G.
Urbana, Ill. : National Association of Colleges and Teachers of Agriculture.
NACTA journal v. 35 (4): p. 33-38; 1991 Dec. Includes references.

Language: English

Descriptors: Illinois; Erosion; College students; Agricultural colleges; Value systems; Curriculum

53 NAL Call No: TX341.J6
College students' perception of nutrition messages: how motivating are they?
Neilson, J.L.; Larson-Brown, L.B.
Baltimore, Md. : Williams & Wilkins.
Journal of nutrition education v. 22 (1): p. 30-34. charts; 1990 Feb. Includes 15 references.

Language: English

Descriptors: Nutrition education; Food habits; Behavior modification; Motivation; Teaching methods; Program evaluation; College students

Abstract: Nutrition education that uses the pleasure approach to healthful eating may be more useful than the traditional warning approach of disseminating nutrition information. With this in mind, a cafeteria nutrition game, patterned after Bingo, but using nutrition messages instead of numbers, was developed for use in a university residence hall cafeteria.

54 NAL Call No: 447.8 AM3
A comparison of interactive videodisc instruction with live animal laboratories.
Fawver, A.L.; Branch, C.E.; Trentham, L.; Robertson, B.T.; Beckett, S.D.
Bethesda, Md. : American Physiological Society.
American journal of physiology v. 259 (6,pt.3): p. S11-S14; 1990 Dec. Includes references.

Language: English

Descriptors: Animal physiology; Laboratory animals; Videodiscs; Computer assisted instruction; Teaching methods

Abstract: This study compared interactive videodisc-simulated laboratories with two types of traditional labs: a traditional general cardiovascular physiology participation lab and a traditional fibrillation/positive pressure ventilation demonstration lab. The two laboratory sections (a total of 85 first-year veterinary medical students) were divided into 12 lab groups of 3-4 students per lab section. These groups were randomly assigned to either a traditional live animal laboratory or an interactive videodisc-simulated laboratory to compare the effectiveness and efficiency of these methods in teaching physiology. A 22-item, multiple-choice/short answer test was given to all students after the laboratories. In both the participation and the demonstration laboratories, there were no significant differences between group test scores of the interactive videodisc groups and the live animal laboratory groups, but there were differences in time spent by both students and instructors. It was concluded that the interactive videodisc-simulated lab was as effective as the traditional live-animal labs and was more time efficient than the traditional participation lab.

55 NAL Call No: 275.8 AG8
Computer instruction in the preservice program.
Powers, L.
Henry, Ill. : The Magazine.
The Agricultural education magazine v. 63 (9): p. 13-15; 1991 Mar. Includes references.

Language: English

Descriptors: Agricultural education; Computer assisted instruction

56 NAL Call No: 290.9 AM32P
Computer integration in the curriculum at Virginia Tech.
Heatwole, C.D.; Haugh, C.G.; Diehl, K.C.
St. Joseph, Mich. : The Society.
Paper - American Society of Agricultural Engineers (90-3003): 9 p.; 1990. Paper presented at the 1990 International Summer Meeting, June 24-27, 1990, Columbus, Ohio. Includes references.

Language: English

Descriptors: Virginia; Minicomputers; Education; Curriculum; Universities

57 NAL Call No: 275.8 AG8
Computer simulations, adding a touch of realism.
Schumacher, L.G.; Strickland, R.M.
Henry, Ill. : The Magazine.
The Agricultural education magazine v. 64 (8): p. 8-9; 1992 Feb. Includes references.

Language: English

Descriptors: Agricultural education; Computer assisted instruction; Teaching methods; Computer simulation

58 NAL Call No: 275.8 AG8
Computer-assisted teaching: LANDCADD: professionalizing agricultural graphic applications in the classroom.
Kirby, B.M.
Henry, Ill. : The Magazine.
The Agricultural education magazine v. 65 (5): p. 22-23; 1992 Nov.

Language: English

Descriptors: Agricultural education; Computer assisted instruction; Computer software; Computer graphics; Design; Planning; Graphs

59 NAL Call No: 290.9 AM32P
Computerized class management - key to optimizing agricultural engineering education.
Strickland, R.M.; Jones, D.D.
St. Joseph, Mich. : The Society.
Paper - American Society of Agricultural Engineers (90-7004): 7 p.; 1990. Paper presented at The 1990 International Summer Meeting sponsored by the American Society of Agricultural Engineers, June 24-27, 1990, Columbus Ohio.

Language: English

Descriptors: Agricultural education; Computer assisted instruction; Educational programs

60 NAL Call No: 275.8 AG8
Computerized instruction, practices for the 90s and beyond.
Kirby, B.M.
Henry, Ill. : The Magazine.
The Agricultural education magazine v. 63 (9): p. 4, 7; 1991 Mar.

Language: English

Descriptors: Agricultural education; Computer assisted instruction

61 NAL Call No: 290.9 AM32P
Computers in education.
Hosain, M.U.; Sokhansanj, S.
St. Joseph, Mich. : The Society.
Paper - American Society of Agricultural Engineers (90-3016): 3 p.; 1990. Paper presented at the 1990 International Summer Meeting, June 24-27, 1990, Columbus, Ohio.

Language: English

Descriptors: Computer assisted instruction; Teaching materials; Engineering

62 NAL Call No: 275.8 AG8
Computers in teaching: a decade of experience.
Birkenholz, R.
Henry, Ill. : The Magazine.
The Agricultural education magazine v. 64 (8): p. 4-5; 1992 Feb. Includes references.

Language: English

Descriptors: Agricultural education; Computer assisted instruction; Teaching methods

63 NAL Call No: S530.J6
Contributing to agricultural literacy: the science of agriculture.
Brown, L.G.; Coffey, D.M.
Madison, Wis. : American Society of Agronomy.
Journal of natural resources and life sciences education v. 21 (2): p. 169-170; Fall 1992. Includes references.

Language: English

Descriptors: Kentucky; Agricultural education; Universities; Curriculum; Environmental education

64 NAL Call No: 275.8 AG8
Cooperative learning as a teaching strategy.
Bruening, T.
Henry, Ill. : The Magazine.
The Agricultural education magazine v. 63 (3): p. 12-14. ill; 1990 Sep. Includes references.

Language: English

Descriptors: Agricultural education; Teaching methods; Learning experiences; Learning activities; Teamwork; Group behavior; Communication skills; Social interaction

65 NAL Call No: 275.9 N213
Cooperative learning in an introductory course.
Sorensen, R.C.; Lunde, J.P.; Dierberger, B.K.;

McCallister, D.L.
Urbana, Ill. : National Association of Colleges and Teachers of Agriculture.
NACTA journal v. 36 (1): p. 30-34; 1992 Mar. Includes references.

Language: English

Descriptors: Nebraska; Learning activities; Cooperation; Group interaction; Teaching methods; Educational innovation; Agricultural education

66 NAL Call No: 275.9 N213
A course expanding the international perspective of undergraduate students.
Schweitzer, L.E.; Baumgardner, M.F.
Urbana, Ill. : National Association of Colleges and Teachers of Agriculture.
NACTA journal v. 37 (4): p. 4-7; 1993 Dec. Includes references.

Language: English

Descriptors: Illinois; Agricultural education; College curriculum; Educational planning; Cultural differentiation; Geography; Universities

67 NAL Call No: S530.J6
Critical thinking in agronomy: classroom activities that encourage students to question information validity.
Anderson, W.A.; Waseca, MN
Madison, Wis. : American Society of Agronomy.
Journal of natural resources and life sciences education v. 21 (2): p. 165-168; Fall 1992. Includes references.

Language: English

Descriptors: Minnesota; Agricultural education; Problem solving; Teaching methods; Analysis

68 NAL Call No: 47.8 AM33P
Current teaching programs in poultry science.
Cook, M.E.
Champaign, Ill. : Poultry Science Association.
Poultry science v. 71 (8): p. 1313-1315; 1992 Aug. Includes references.

Language: English

Descriptors: Agricultural education; College curriculum; Graduate study

Abstract: Solvent departments offering a poultry science major have successfully taught a complement of courses at the undergraduate level nearly equal to that taught by large departments. Poultry science instruction in merged departments has greatly declined. Although large departments of poultry science are able to offer advanced graduate level courses of poultry science, small departments have had to rely on teaching programs offered by other departments. However, even in large departments, many courses at the graduate level are taught across species and disciplines.

69 NAL Call No: 99.8 F768
Curriculum accreditation & recognition: An updated listing of forestry programs meeting SAF criteria.
Smith, P.G. (comp.)
Bethesda, Md. : Society of American Foresters.
Journal of forestry v. 90 (3): p. 23-26; 1992 Mar.

Language: English

Descriptors: U.S.A.; Forestry; College curriculum

70 NAL Call No: SF601.J62
Curriculum change related to live animal use: a four-year surgical curriculum.
White, K.K.; Wheaton, L.G.; Greene, S.A.
Blacksburg, Va. : The Association of American Veterinary Medical Colleges.
Journal of veterinary medical education v. 19 (1): p. 6-10; Winter 1992. Includes references.

Language: English

Descriptors: Washington; Veterinary education; Surgery; College curriculum; Laboratory animals; Educational reform; Educational objectives; Teaching methods; Animal welfare; Animal testing alternatives

71 NAL Call No: 275.9 N213
A curriculum for the year 2000 and beyond.
Christensen, A.C.
Urbana, Ill. : National Association of Colleges and Teachers of Agriculture.
NACTA journal v. 35 (4): p. 8-12; 1991 Dec. Includes references.

Language: English

Descriptors: Zoology; Agricultural education; Curriculum; Educational planning; Educational reform

72 NAL Call No: 500 AM322A
A de facto standardized curriculum for US college biology and zoology.
Heppner, F.; Hammen, C.; Kass-Simon, G.; Krueger, W.

Washington, D.C. : The Institute.
BioScience - American Institute of Biological Sciences v. 40 (2): p. 130-134; 1990 Feb. Includes statisticai data. Includes references.

Language: English

Descriptors: U.S.A.; Biology; Zoology; Curriculum; Standards; College programs; Surveys

73 NAL Call No: SB317.5.H68
Decision cases as a teaching component in the classroom and workplace.
Davis, D.W.
Alexandria, VA : American Society for Horticultural Science.
HortTechnology v. 2 (1): p. 96-99; 1992 Jan/Mar. Proceedings of the Workshop, "Impact of Runoff Water Quality on Future Nursery Crop Production," held at the 87th ASHS Annual Meeting, November 8, 1990, Tucson, Arizona. Includes references.

Language: English

Descriptors: Agricultural education; Agricultural colleges; Case studies; Decision making; Teaching methods; Higher education

74 NAL Call No: 275.9 N213
Developing oral communication skills in animal science classes.
Zinn, S.A.; Faustman, C.; Riesen, J.W.
Urbana, Ill. : National Association of College and Teachers of Agriculture.
NACTA journal v. 37 (4): p. 14-17; 1993 Dec. Includes references.

Language: English

Descriptors: Connecticut; Oral communication; Zoology; Agricultural education; College curriculum; Communication skills

75 NAL Call No: 275.8 AG8
Developing scientific principles in agricultural mechanics.
Krueger, D.
Henry, Ill. : The Magazine.
The Agricultural education magazine v. 64 (9): p. 16-18; 1992 Mar. Includes references.

Language: English

Descriptors: Agricultural education; Science education; Teaching methods

76 NAL Call No: TX341.J6
The development and evaluation of computer assisted instruction modules for an introductory, college-level nutrition course.
Byrd-Bredbenner, C.; Bauer, K.
Baltimore, Md. : Williams & Wilkins.
Journal of nutrition education v. 23 (6): p. 275-283. charts; 1991 Nov/Dec. Includes references.

Language: English

Descriptors: Nutrition education; Computer assisted instruction; Nutrition knowledge; Attitudes; Educational objectives; Program evaluation; College curriculum; College students

Abstract: The purposes of this study were to develop a coordinated set of seven Computer Assisted Instruction (CAI) modules for a one-semester, introductory, college-level nutrition course and to compare the effectiveness of the CAI Modules with traditional lectures. A quasi-Solomon four-group experimental design was used. Two instruments were used to collect pretest and posttest data: a nutrition knowledge test and a Likert-type attitude instrument containing three scales designed to assess students' attitudes toward computers. After finishing each of the seven CAI modules, students in the experimental groups completed a semantic differential attitude instrument containing four scales designed to evaluate student attitudes toward each CAI module. The results of analysis of covariance procedures indicate that the adjusted mean post scores of the experimental group on the knowledge test and Likert-type attitude scales Computers Help Me Learn and I Am Capable of Using Computers differed significantly from those of the control group. Mean scores on the semantic differential instrument scales tended to rise steadily for the first four modules assigned, then decline to a plateau. The findings indicate that CAI can improve nutrition knowledge and that students enjoy using CAI; thus, CAI modules may be a valuable and effective educational tool for nutrition educators.

77 NAL Call No: S530.J6
Development and evaluation of LEGUME ID: a ToolBook multimedia module.
Hannaway, D.B.; Shuler, P.E.; Bolte, J.P.; Miller, M.J.
Madison, Wis. : American Society of Agronomy.
Journal of natural resources and life sciences education v. 21 (1): p. 57-61; Spring 1992. Includes references.

Language: English

Descriptors: Legumes; Identification; Computer assisted instruction; Teaching methods; Computer software; Agricultural education

78 NAL Call No: S530.J6
Development of a B.S. degree program in environmental science.
Daniels, W.L.; McKenna, J.R.; Parker, J.C.
Madison, Wis. : American Society of Agronomy.
Journal of natural resources and life sciences education v. 21 (1): p. 70-74; Spring 1992. Includes references.

Language: English

Descriptors: Virginia; Environmental education; Science education; Educational programs; Program development; College curriculum; Universities

79 NAL Call No: TX341.J6
Development of a graded series of nutrient analysis assignments for an undergraduate nutrition course.
Marshall, S.A.; Parham, E.S.
Baltimore, Md. : Williams & Wilkins.
Journal of nutrition education v. 22 (3): p. 140C. ill; 1990 May/June. Includes references.

Language: English

Descriptors: Dietetic education; Food analysis; Computer software; Computer assisted instruction; Eating patterns; Ethnic groups; Food preferences; Nutrition knowledge; Weight control; Dietetic interns

Abstract: "Using software packages to analyze diets ought to be as routine as using a typewriter." This statement summarizes the attitude of our faculty members as we considered the options for incorporating computer-assisted dietary analysis into our beginning nutrition class. The class is the first in a series required for the B.S. in nutrition and dietetics. We selected the Nutritionist III software package because of its flexibility and ease of use.

80 NAL Call No: SF601.A54
Development of a teaching laboratory aid for instruction of fine needle aspiration biopsy cytology technique.
Simpson, R.M.; Meuten, D.J.
Santa Barbara, Calif. : Veterinary Practice Publishing Company.
Veterinary clinical pathology v. 21 (2): p. 40-44; 1992 Jun15. Includes references.

Language: English

Descriptors: Veterinary education; Fine needle aspiration; Cytology; Teaching materials

81 NAL Call No: SF601.J62
Development of an attitude scale for veterinary transfusion medicine.
Miner, D.; Wardrop, J.; Meyers, K.; McDougall, W.
Blacksburg, Va. : The Association of American Veterinary Medical Colleges.
Journal of veterinary medical education v. 18 (2): p. 43-45; Fall 1991. Includes references.

Language: English

Descriptors: Veterinary medicine; College students; Attitudes; Evaluation; Veterinary education; College curriculum; Transfusion

82 NAL Call No: TX341.J6
Development of an instrument to assess critical thinking constructs in nutrition audiovisual materials.
Nitzke, S.; Harwood, A.; Way, W.L.
Baltimore, Md. : Williams & Wilkins.
Journal of nutrition education v. 24 (3): p. 130-135; 1992 May/June. Includes references.

Language: English

Descriptors: Nutrition education; Teaching materials; Video recordings; Problem solving; Decision making; Educational theory; Educational objectives; Educational planning; Evaluation; Validity; Nutrition knowledge

Abstract: An instrument was constructed to evaluate critical thinking components in nutrition education audiovisual materials. A conceptual framework that synthesized critical thinking constructs and nutrition education principles was developed as a foundation for the instrument. Scores from the Critical Thinking and Nutrition instrument indicate the relative strength of an audiovisual in four critical thinking categories: metacognition, performance, knowledge-acquisition, and dispositions. The instrument is an evaluation tool for educators who wish to incorporate critical thinking into their nutrition instruction, and it may also serve as a guide for developers of nutrition audiovisuals. Validity of the instrument was established based on the ratings of an expert panel. Satisfactory reliability measures were ob-

tained in three pilot evaluations of videocassetes. When a sample of 13 videocassettes on nutrition and osteoporosis was evaluated using the instrument, a fairly wide range of scores was attained, indicating that critical thinking constructs were being addressed to varying degrees. Further study is needed to determine if the instrument could be adapted for the evaluation of other types of curriculum materials and/or subjects other than nutrition education.

83 NAL Call No: HC79.E5E5
Dialogic writing as a tool for thinking and learning about the environment.
Hylton, J.; Lemons, J.
New York, N.Y. : Springer-Verlag.
Environmental management v. 16 (2): p. 195-204; 1992 Mar/Apr. Includes references.

Language: English

Descriptors: Educational programs; Curriculum; Writing; Environment; Educational reform

84 NAL Call No: HD1773.A3N6
Doctoral program characteristics and rankings in agricultural economics.
Foltz, J.C.
East Lansing, Mich. : Michigan State University.
Review of agricultural economics v. 13 (2): p. 215-221; 1991 Jul. Includes references.

Language: English

Descriptors: Agricultural economics; Educational programs; Graduate study; College curriculum; Surveys; Ranking; Characteristics

Abstract: A 1989 survey of 30 agricult ral economics departments that offer Ph.D. programs indicated a diversity of requirements with 93 and 73 percent requiring macroeconomic and macroeconomic examinations, respectively. The average Ph.D. program required 4.6 years, but varied from three to eight years to complete, depending on the university. A longer Ph.D. program was found to be correlated with a more highly ranked department.

85 NAL Call No: 44.8 J822
Economic replacement value: a computer program to teach the economic value of feedstuffs.
Ely, L.O.; Froetschel, M.A.; Mertens, D.R.; Nianogo, A.J.
Champaign, Ill. : American Dairy Science Association.
Journal of dairy science v. 74 (8): p. 2774-2777; 1991 Aug. Includes references.

Language: English

Descriptors: Feed grains; Feed formulation; Costs; Feed requirements; Computer software; Teaching materials

Abstract: A computer program was written to calculate the economic value of feeds relative to a corn and soybean meal mixture. Results of this program were compared with Morrison values and competitive prices from linear programming solutions. The program is used to introduce students to the concept of evaluating feedstuffs economically based on nutrient content and as a transition to the use of linear programing to balance rations.

86 NAL Call No: HD101.S6
Educating the undergraduate agribusiness major.
Vandeveer, L.R.; Guedry, L.J.
Experiment, Ga. : The Association.
Southern journal of agricultural economics - Southern Agricultural Economics Association v. 24 (1): p. 17-26; 1992 Jul. Includes references.

Language: English

Descriptors: Agribusiness; Agricultural education; Educational programs; Educational planning; College curriculum; College programs

Abstract: Undergraduate programs in agribusiness education have attracted much interest in recent years Many university facilities have developed agribusiness educational programs and others are considering the development of such programs. As these programs evolve throughout the country, there are many questions which relate to the structure and future directions of these educational efforts. A review of the issues related to agribusiness program development is presented. A planning process that can be used to focus on the many agribusiness educational issues and provide insight into agribusiness program development is outlined.

87 NAL Call No: QD1.A45
Education of environmental specialists and generalists in American Universities.
Kupchella, C.E.
Washington, D.C. : The Society.
ACS Symposium series - American Chemical Society (483): p. 473-480; 1992. In the series analytic: The science of global change: the impact of human activities on the environment / edited by D.A. Dunnette and R.J. O'Brien. Includes references.

Language: English

Descriptors: U.S.A.; Environmental education; College curriculum; Environmental protection

Abstract: Universities must take responsibility for the general environmental education of all graduates and the preparation of greater numbers of appropriately educated environmental specialists. All university students must be environmentally educated because the health of the environment depends upon knowledge and attitudes about the environment among leaders in all walks of life. The issue here is how to fit the environment into the long list of things all students need to know. The eclectic nature of environmental problems requires that environmental specialists also need to be broadly educated. Here the issue seems to be how broad is broad enough, since breadth comes at the expense of depth. Perhaps we need a number of different ways of preparing environmental workers.

88 NAL Call No: 275.8 AG8
Effective communication in agriculture.
Gartin, S.A. (ed.)
Henry, Ill. : The Magazine.
The Agricultural education magazine v. 63 (3): p. 4, 22; 1990 Sep. Includes references.

Language: English

Descriptors: Agricultural education; Communication skills; Teaching methods; Teachers

89 NAL Call No: 275.8 AG8
Effective laboratory teaching.
Johnson, D.M.
Henry, Ill. : The Magazine.
The Agricultural education magazine v. 64 (3): p. 11, 15; 1991 Sep. Includes references.

Language: English

Descriptors: Agricultural education; Laboratory methods; Learning; Teaching methods

90 NAL Call No: 275.9 N213
An effective strategy in agricultural safety training.
Lehtola, C.J.; Boyd, M.M.
Urbana, Ill. : National Association of Colleges and Teachers of Agriculture.
NACTA journal v. 36 (2): p. 31-34; 1992 Jun. Includes references.

Language: English

Descriptors: Iowa; Safety; Agricultural education; College curriculum; Universities; Teaching methods; Videotapes; Educational courses; Distance teaching

91 NAL Call No: HD1407.C6
The effectiveness of concept mapping as a teaching tool: evidence from courses in applied economics.
Willett, L.S.; Kaiser, H.M.; Streeter, D.H.; Beissner, K.L.
Ithaca, N.Y. : The Station.
Cornell agricultural economics staff paper - Department of Agricultural Economics, Cornell University Agricultural Experiment Station (93-04): 20 p.; 1993 Mar. Paper presented at Teaching Economics: Instruction and Classroom Based Research, Fourth Annual Conference, February 12-13, 1993, Pittsburg, Pennsylvania. Includes references.

Language: English

Descriptors: New York; Economics; Agricultural education; Teaching methods; University research

92 NAL Call No: 275.9 N213
The effectiveness of video-based instruction in an undergraduate agricultural business course.
Hathaway, B.A.; Akridge, J.T.; Downey, W.D.
Urbana, Ill. : National Association of College and Teachers of Agriculture.
NACTA journal v. 37 (4): p. 33-37; 1993 Dec. Includes references.

Language: English

Descriptors: Video recordings; Distance teaching; Agribusiness; Marketing; College curriculum; Evaluation

93 NAL Call No: SF601.J62
Effects of a cooperative learning structure in an oncology class.
Rosenthal, R.C.; Gruber, S.E.
Blacksburg, Va. : The Association of American Veterinary Medical Colleges.
Journal of veterinary medical education v. 17 (1): p. 28-29; Spring 1990. Includes references.

Language: English

Descriptors: Veterinary education; Learning activities; Teaching methods; Cooperation; Attitudes; Academic achievement

94 NAL Call No: QL461.A52
Entomology and education.
Oseto, C.
Lanham, Md. : Entomological Society of America.
American entomologist v. 37 (4): p. 198-199; Winter 1991. Includes references.

Language: English

Descriptors: U.S.A.; Entomology; Education; Careers; Curriculum; Minorities; Public relations; Women

95 NAL Call No: S530.J6
An "environmental issues in agronomy" course.
Barbarick, K.A.
Madison, Wis. : American Society of Agronomy.
Journal of natural resources and life sciences education v. 21 (1): p. 61-63; Spring 1992. Includes references.

Language: English

Descriptors: Colorado; Agronomy; Environmental education; Educational courses; Program evaluation; Universities; Teaching methods

96 NAL Call No: SF601.J62
Evaluation criteria for instructional materials in veterinary medicine.
Johnson, L.M.; Upson, D.W.
Blacksburg, Va. : The Association of American Veterinary Medical Colleges.
Journal of veterinary medical education v. 17 (2): p. 52-55; Fall 1990. Includes references.

Language: English

Descriptors: U.S.A.; Veterinary education; Veterinary medicine; Evaluation; Teaching materials

97 NAL Call No: 99.8 F768
Evaluation of a writing improvement program.
Wellman, J.D.; McMullen, J.Q.; Hirsch, G.N.
Bethesda, Md. : Society of American Foresters.
Journal of forestry v. 88 (11): p. 24-27; 1990 Nov. Includes references.

Language: English

Descriptors: Forestry; College curriculum; Writing skills; Surveys

98 NAL Call No: 275.9 N213
Evaluation of teaching/programs.
Beck, R.L.
Urbana, Ill. : National Association of Colleges and Teachers of Agriculture.
NACTA journal v. 34 (3): p. 25-26; 1990 Sep.

Language: English

Descriptors: Performance appraisals; Teachers; Teaching methods; Program evaluation; Learning

99 NAL Call No: 389.9 AM34
Evaluation tools for undergraduate program planning in times of financial austerity.
O'Palka, J.; Harris, P.R.
Chicago, Ill. : The Association.
Journal of the American Dietetic Association v. 90 (5): p. 690-694. charts; 1990 May. Includes 12 references.

Language: English

Descriptors: Montana; Dietetic education; Dietetic interns; Program evaluation; Evaluation criteria; Curriculum; Program development

Abstract: This article describes the administration and outcome of two evaluation tools developed by faculty of the dietetic program for ongoing assessment of a Plan IV dietetic education program over a 4-year period. Interns and internship directors were asked to evaluate the level of skills and knowledge base of interns compared with their internship classmates. Interns were also asked to rate the effectiveness of undergraduate course assignments and activities for internship preparation. As a result of the surveys, the home economics core course work was deleted, credits were shifted from food science to nutrient metabolism courses, and credits in clinical nutrition were increased. Projects in clinical nutrition and food systems management were modified. The surveys justified program requirements and utilization of resources. and provided an additional, effective measure of faculty competence.

100 NAL Call No: 275.9 N213
Experiential learning in a cross-disciplinary student-directed research course.
Fletcher, J.; Branen, L.
Urbana, Ill. : National Association of College and Teachers of Agriculture.
NACTA journal v. 37 (4): p. 18-22; 1993 Dec. Includes references.

Language: English

Descriptors: Learning experiences; Educational research; College curriculum; Educational planning; Teaching methods; College students

101 NAL Call No: 100 OK4M
Experimental learning using a fed cattle market simulator: the "packer-feeder game".
Koontz, S.R.; Peel, D.S.; Trapp, J.N.; Ward, C.E.
Stillwater, Okla. : The Station.
Research report P - Oklahoma Agricultural Experiment Station (929): 29 p.; 1992 Dec. Includes references.

Language: English

Descriptors: Cattle feeding; Computer assisted instruction; Learning games; Projects; Marketing; Management

102 NAL Call No: SF601.J62
Faculty and student attitudes toward problem solving and independent learning in the veterinary medical curriculum.
Herron, M.A.; Wolf, A.; DiBrito, W.
Blacksburg, Va. : The Association of American Veterinary Medical Colleges.
Journal of veterinary medical education v. 17 (1): p. 19-21; Spring 1990.

Language: English

Descriptors: Texas; Veterinary education; College curriculum; Problem solving; Independent study; Attitudes; College students; Teachers; Surveys; Educational reform

103 NAL Call No: 275.8 AG8
From project method to SAE, rethinking the concept.
Barrick, R.K.
Henry, Ill. : The Magazine.
The Agricultural education magazine v. 62 (11): p. 23; 1990 May.

Language: English

Descriptors: U.S.A.; Agricultural education; Curriculum

104 NAL Call No: 275.9 N213
Future curriculum needs and graduate attributes of agricultural associate degree programs.
Neal, S.M.; Hammond, K.D.; Kreps, G.M.
Urbana, Ill. : National Association of Colleges and Teachers of Agriculture.
NACTA journal v. 35 (4): p. 21-23; 1991 Dec. Includes references.

Language: English

Descriptors: Ohio; Agricultural education; Educational programs; Curriculum; Needs assessment; Educational reform

105 NAL Call No: 275.8 AG8
Get "hyper"active with your Mac.
Terry, R. Jr
Henry, Ill. : The Magazine.
The Agricultural education magazine v. 64 (8): p. 10-12; 1992 Feb. Includes references.

Language: English

Descriptors: Computer software; Agricultural education; Computer assisted instruction

106 NAL Call No: 275.8 AG8
Getting the most out of group problem solving.
Dormody, T.J.
Henry, Ill. : The Magazine.
The Agricultural education magazine v. 64 (2): p. 4, 10-11; 1991 Aug. Includes references.

Language: English

Descriptors: Problem solving; Teamwork; Group behavior; Educational methods; Teaching methods; Agricultural education

107 NAL Call No: 275.8 AG8
Going Collegiate.
Persons, E.
Henry, Ill. : The Magazine.
The Agricultural education magazine v. 63 (10): p. 6-7, 10; 1991 Apr.

Language: English

Descriptors: Minnesota; Agricultural education; College programs; Farm management; Curriculum guides

108 NAL Call No: 275.8 AG8
Harvard Graphics goes to school, 'show & tell' with computer slides.
Gordon, H.R.; Hall, J.
Henry, Ill. : The Magazine.
The Agricultural education magazine v. 63 (9): p. 19, 22; 1991 Mar.

Language: English

Descriptors: Agricultural education; Computer assisted instruction; Computer software; Computer graphics

109 NAL Call No: 275.8 AG8
Helping implement groundwater protection policy.

Williams, D.L.; Weber, E.
Henry, Ill. : The Magazine.
The Agricultural education magazine v. 63 (8): p. 15-16, 20. ill; 1991 Feb. Includes references.

Language: English

Descriptors: Iowa; Groundwater pollution; Water quality; Water policy; Environmental legislation; Educational programs; Water conservation; Natural resources; Resource management; Agricultural education; Curriculum

110 NAL Call No: 275.9 N213
The hire-a-soil exercise.
Flint, H.L.; DeTurk, P.E.
Urbana, Ill. : National Association of Colleges and Teachers of Agriculture.
NACTA journal v. 34 (3): p. 20; 1990 Sep.

Language: English

Descriptors: Indiana; Landscape architecture; Educational programs; Personnel management; Interviews; Teaching methods; Learning activities

111 NAL Call No: SB1.H6
Horticulture in new environment or it's time to communicate: but with whom?
Miller, J.C. Jr
Alexandria, Va. : American Society for Horticultural Science.
HortScience v. 28 (6): p. 614-615; 1993 Jun.

Language: English

Descriptors: U.S.A.; Agricultural education; Horticulture; Universities; Graduates; Curriculum; Environmental education; Research policy; Research support; Communication skills; Scientists; Industry

112 NAL Call No: 389.8 F7398
How can undergraduate education be improved?
Newsome, R.
Chicago, Ill. : Institute of Food Technologists.
Food technology v. 45 (7): p. 122, 124, 126, 128, 130; 1991 Jul.

Language: English

Descriptors: College curriculum; Agricultural colleges; Conferences; Educational planning; Educational innovation; Improvement

113 NAL Call No: TX341.J6
How to avoid saying "I know you can't read this but...".
Knight, S.; Probart, C.
Baltimore, Md. : Williams & Wilkins.
Journal of nutrition education v. 24 (2): p. 94B; 1992 Mar/Apr. Includes references.

Language: English

Descriptors: Nutrition education; Audiovisual aids; Teaching methods; Educational objectives

Abstract: The goal of any nutrition presentation is communication. The use of legible visuals not only effectively and efficiently conveys the information you want to share, but also says that you are concerned about your audience, concerned about their learning and concerned about them as people. They tend to tire quickly from the strain of trying to decipher poorly designed visuals. If you take the time to incorporate the above guidelines into the visuals that you produce, you'll never have to apologize for your visuals and your presentation will likely have an unprecedented impact on those you are trying to reach and teach.

114 NAL Call No: TX341.J6
Hunger and the academy: Training nutritionists for the 1990s.
Csete, J.
Baltimore, Md. : Williams & Wilkins.
Journal of nutrition education v. 24 (1,suppl.): p. 79S-83S; 1992 Jan/Feb. Includes references.

Language: English

Descriptors: Hunger; Nutrition education; Nutritional state; Dietetic education; Curriculum; Economic situation; Agricultural development; Poverty; Training; Population density; Environmental factors; Woman's status

Abstract: The curricula of many university nutrition programs in the U.S. do not reflect the importance to nutritionists of understanding the social and economic context of undernutrition. In this paper, some practical suggestions are offered for incorporating the study of hunger into the nutrition and dietetics curricula of U.S. universities.

115 NAL Call No: SF601.J62
Identifying clinical teaching patterns and needs: an exercise in departmental self-awareness.
Fossum, T.W.; Ruoff, W.W. Jr; Paprock, K.E.; Rushton, W.T.; Willard, M.D.; Palmer, R.H.
Blacksburg, Va. : The Association of American Veterinary Medical Colleges.
Journal of veterinary medical education v. 18 (2): p. 49-53; Fall 1991. Includes references.

Language: English

Descriptors: U.S.A.; Veterinary medicine; Veterinary education; Teaching methods; Clinical experience; Evaluation; Job performance

116 NAL Call No: 389.8 F7398
IFT Undergraduate Curriculum Minimum Standards, 1977 Revision.
Chicago, Ill. : Institute of Food Technologists.
Food technology v. 44 (2): p. 32, 39-40; 1990 Feb.

Language: English

Descriptors: Food technology; Personnel; Professional education; Educational objectives; Educational reform; Curriculum; Teachers; Academic standards

Abstract: The Institute of Food Technologists details its recommendations for evaluatory undergraduate professional education in food science and technology. Topics include educational objectives and policies, and faculty and curriculum standards.

117 NAL Call No: 275.9 N213
Impact of interpersonal skills instruction on the likelihood of increased student participation in community and university activities.
Fritz, S.M.; Foster, R.L.
Urbana, Ill. : National Association of Colleges and Teachers of Agriculture.
NACTA journal v. 36 (4): p. 18-21; 1992 Dec. Includes references.

Language: English

Descriptors: Nebraska; Agricultural education; College curriculum; Interpersonal relations; Communication skills; Community involvement; Social activities

118 NAL Call No: QH1.A43
The impact of using interactive video in teaching general biology.
Huang, S.D.; Aloi, J.
Reston, Va. : National Association of Biology Teachers.
The American biology teacher v. 53 (5): p. 281-284; 1991 May. Includes references.

Language: English

Descriptors: Science education; Videodiscs; Computer assisted instruction

119 NAL Call No: 275.8 AG8
Implementing agricultural literacy programs.
Law, D.A.
Henry, Ill. : The Magazine.
The Agricultural education magazine v. 62 (9): p. 5-6, 22. ill; 1990 Mar. Includes references.

Language: English

Descriptors: U.S.A.; Illinois; Agricultural education; Literacy; Curriculum

120 NAL Call No: 275.8 AG8
Improving your classroom teaching: borrowing from TV's successful formula.
Straquadine, G.
Henry, Ill. : The Magazine.
The Agricultural education magazine v. 64 (8): p. 20-21; 1992 Feb. Includes references.

Language: English

Descriptors: Agricultural education; Teaching methods

121 NAL Call No: 275.9 N213
In-class exercises to improve learning in a lecture class.
Waldren, R.P.
Urbana, Ill. : National Association of Colleges and Teachers of Agriculture.
NACTA journal v. 36 (1): p. 38-40; 1992 Mar. Includes references.

Language: English

Descriptors: U.S.A.; Agricultural education; Teaching methods; Learning; Learning activities; Group interaction; Cooperation; Academic achievement; Case studies

122 NAL Call No: S605.5.A43
Incorporating agroecology into the conventional agricultural curriculum.
Altieri, M.A.; Francis, C.A.
Greenbelt, Md. : Institute for Alternative Agriculture.
American journal of alternative agriculture v. 7 (1/2): p. 89-93; 1992. Includes references.

Language: English

Descriptors: U.S.A.; Agricultural education; Sustainability; College curriculum; Ecosystems; Resource management; Environmental education

Abstract: Agroecology is the development and application of ecological theory to the management

of agricultural systems, according to the specific land and other resources available. Beyond the biological and climatic dimensions of agriculture and ecology, there is growing appreciation of the influence of social, economic, and political factors on the structure and success of farming systems. This broader field is becoming known as "agroecology and sustainable development." Expansion of the conventional curriculum to include integrative themes is essential because of the need for students to appreciate a whole farm focus for analysis, to understand the impact of socio-economic factors, and to further develop their abilities to link people and environment. Two courses are proposed and described in detail. "Biology of Agroecosystems" includes study of system structure and function, cycles and interactions among components, system development and performance, and the importance of resource conservation and use. "Agroecology and Sustainable Agricultural Development" includes a survey of systems around the world, an evaluation of resources and their use, the environmental impact of agriculture, the relationships between society and agriculture, the applications of agroecology to rural development, and some projections of alternative future strategies for food production. Future agricultural professionals need to understand how improvement of agroecosystems is closely linked to economic, cultural, and political systems, and how they are both enhanced and constrained by factors beyond biology and climate.

123 NAL Call No: 49 J82
Influence of alumni careers and students' educational pathways on animal science undergraduate teaching programs.
Meyer, J.H.
Champaign, Ill. : American Society of Animal Science.
Journal of animal science v. 68 (10): p. 3056-3068; 1990 Oct. Includes references.

Language: English

Descriptors: California; Agricultural education; Zoology; College students; College curriculum; Universities; Graduates; Career development

124 NAL Call No: 275.8 AG8
Information rich, experience poor.
Elliot, J.; Boone, H.N.; Doerfert, D.L.
Henry, Ill. : The Magazine.
The Agricultural education magazine v. 64 (6): p. 6-8; 1991 Dec. Includes references.

Language: English

Descriptors: Agricultural education; Teaching methods; Practical education

125 NAL Call No: HT401.A36
Infusing an international perspective at the 1890 land-grant institutions.
Lyles, G.J.
Gainesville, Fla. : Humanities and Agriculture, University of Florida.
Agriculture and human values v. 9 (1): p. 82-85; Winter 1992. Includes references.

Language: English

Descriptors: Alabama; Agricultural colleges; Curriculum; Agricultural research; Technology transfer; Role perception; Case studies

126 NAL Call No: HQ1.F36
Innovative ways and controversial issues in teaching about families: a special collection on family pedagogy.
Allen, K.R.; Crosbie-Burnett, M.
Minneapolis, Minn. : The National Council on Family Relations.
Family relations v. 41 (1): p. 9-11; 1992 Jan. Includes references.

Language: English

Descriptors: U.S.A.; Family life education; Educational innovation; Curriculum; Teaching methods; Teachers; Roles

127 NAL Call No: SB1.H6
Inquiry learning with videodiscs and computers: an innovative teaching method for horticulture courses.
White, J.W.; Beattie, D.J.; Kubek, P.
Alexandria, Va. : American Society for Horticultural Science.
HortScience v. 25 (4): p. 385-388; 1990 Apr. Includes references.

Language: English

Descriptors: Horticulture; Teaching methods; Innovations; Videodiscs; Computer applications; Learning; College curriculum

128 NAL Call No: 99.8 F768
Integrated forest resource education: one response to the challenge.
Gilbert, F.F.; Blatner, K.A.; Carroll, M.S.; Richmond, R.L.; Zamora, B.A.

Bethesda, Md. : Society of American Foresters.
Journal of forestry v. 91 (3): p. 17-22; 1993 Mar. Includes references.

Language: English

Descriptors: Forestry; Professional education; Resource management; College curriculum; Forest management

129 NAL Call No: S530.J6
An integrative, problem-solving approach to teaching crop production.
Mason, S.C.
Madison, Wis. : American Society of Agronomy.
Journal of agronomic education v. 20 (1): p. 19-22; Spring 1991. Includes references.

Language: English

Descriptors: Nebraska; Agricultural education; Crop production; Problem solving; Crop management; Planning; Knowledge; Program evaluation; College curriculum

130 NAL Call No: SF601.J62
Interactive videodisc programs: production and use in the diagnostic pathology block.
Crowell, W.A.; Tyler, D.E.; Smith, F.G.
Blacksburg, Va. : The Association of American Veterinary Medical Colleges.
Journal of veterinary medical education v. 17 (2): p. 50-51; Fall 1990. Includes references.

Language: English

Descriptors: Diagnosis; Animal pathology; Veterinary education; Teaching methods; Videodiscs; Computer techniques; Educational innovation; Educational technology; Computer assisted instruction

131 NAL Call No: 275.9 N213
Internationalizing agricultural economics curricula.
Colyer, D.
Urbana, Ill. : National Association of Colleges and Teachers of Agriculture.
NACTA journal v. 37 (1): p. 43-47; 1993 Mar. Includes references.

Language: English

Descriptors: U.S.A.; Agricultural education; Curriculum; International trade; Higher education; Surveys

132 NAL Call No: SB1.H6
Laboratory exercise demonstrating the importance of leaves in the rooting of herbaceous stem cuttings.
Marcotrigiano, M.; McGlew, S.P.
Alexandria, Va. : American Society for Horticultural Science.
HortScience v. 25 (11): p. 1441-1442. ill; 1990 Nov. Includes references.

Language: English

Descriptors: Coleus; Vegetative propagation; Shoot cuttings; Stems; Leaf area; Defoliation; Leaves; Rooting capacity; Carbohydrates; Auxins; Educational methods

133 NAL Call No: 275.9 N213
Laboratory farm-based course meets content and teaching procedures.
Trede, L.D.; Soomro, F.M.; Williams, D.L.
Urbana, Ill. : National Association of Colleges and Teachers of Agriculture.
NACTA journal v. 36 (4): p. 21-24; 1992 Dec. Includes references.

Language: English

Descriptors: Iowa; Agricultural education; Higher education; College curriculum; Evaluation; Farm management; Teaching methods

134 NAL Call No: 275.8 AG8
Laboratory teaching: presenting effective method demonstrations.
Johnson, D.M.
Henry, Ill. : The Magazine.
The Agricultural education magazine v. 65 (5): p. 19-20; 1992 Nov. Includes references.

Language: English

Descriptors: Agricultural education; Laboratory methods; Lesson plans; Teaching methods; Teaching materials

135 NAL Call No: 275.8 AG8
Laboratory teaching, planning effective method demonstrations.
Johnson, D.M.
Henry, Ill. : The Magazine.
The Agricultural education magazine v. 65 (2): p. 20, 23; 1992 Aug. Includes references.

Language: English

Descriptors: Teaching methods; Agricultural education; Teaching materials; Laboratory methods; Lesson plans

136 NAL Call No: HD1751.C45
The Land Grant college system in transition.
Paarlberg, D.
Ames, Iowa : American Agricultural Economics Association.
Choices : the magazine of food, farm and resource issues v. 7 (3): p. 45; 1992.

Language: English

Descriptors: U.S.A.; Agricultural colleges; Technology; Diffusion of information; College curriculum

137 NAL Call No: 275.8 AG8
Landscaping with microcomputers.
Harris, C.
Henry, Ill. : The Magazine.
The Agricultural education magazine v. 64 (8): p. 5-7, 17; 1992 Feb.

Language: English

Descriptors: Landscaping; Agricultural education; Computer assisted instruction; Computer techniques

138 NAL Call No: HV1.H8
Leadership for the 21st century.
Miles, C.S.; Anderson, C.L.
Ithaca, N.Y. : New York State College of Human Ecology, Cornell University.
Human ecology forum v. 19 (1): p. 13-16; Fall 1990. Includes references.

Language: English

Descriptors: U.S.A.; Leadership; Education; Colleges; College curriculum; Society; Social participation

139 NAL Call No: 275.8 AG8
Leading the way.
Moeller, L.
Henry, Ill. : The Magazine.
The Agricultural education magazine v. 65 (5): p. 3-4; 1992 Nov.

Language: English

Descriptors: Agricultural education; Teaching methods; Learning; Educational objectives

140 NAL Call No: 44.8 J822
LEARNREPRO: a computer-assisted training program for teaching dairy reproduction management.
Johnson, P.J.; Oltenacu, P.A.; Blake, R.W.
Champaign, Ill. : American Dairy Science Association.
Journal of dairy science v. 75 (8): p. 2288-2293; 1992 Aug. Includes references.

Language: English

Descriptors: Dairy herds; Dairy education; Reproductive performance; Records; Computer assisted instruction

Abstract: LEARNREPRO consists of three computer software packages that were developed to improve dairy reproductive problem-solving skills by college students, professionals, and farmers. Tutorial drill and practice, and simulation approaches are utilized. The module REPRO-MEASURES covers six common DHI measures of herd reproductive performance. The USE-OF-RECORDS module integrates information from the previous module while presenting additional problem-solving strategies needed to analyze DHI reproductive records. The ESTRUS-DETECTION module addresses effective estrus detection strategies. User surveys have demonstrated the need for more use of this instructional approach. Educators are encouraged to use these modules and also to develop additional computer teaching programs to facilitate the development of problem-solving skills.

141 NAL Call No: HD1411.O3
Managing ethical issues in the agricultural curriculum.
Stout, T.T.
Columbus : Ohio State University, Dept. of Agricultural Economics and Rural Sociology.
Economics and sociology occasional paper (1937): 28 p.; 1992. Includes references.

Language: English

Descriptors: Ohio; Agricultural education; Ethics; College curriculum

142 NAL Call No: 275.9 N213
Market Profile as a decision-making tool for hedgers of agricultural products.
Drinka, T.P.; York, L.A.
Urbana, Ill. : National Association of Colleges and Teachers of Agriculture.
NACTA journal v. 36 (1): p. 42-43; 1992 Mar. Includes references.

Language: English

Descriptors: U.S.A.; Agricultural education; Curric-

ulum; Futures trading; Markets

143 NAL Call No: HD1401.A56
Market returns to agribusiness skills and competencies.
Preston, W.P.; Broder, J.M.
New York, N.Y. : John Wiley.
Agribusiness v. 6 (1): p. 1-3; 1990 Jan. Includes references.

Language: English

Descriptors: U.S.A.; Agribusiness; Skills; Career development; Returns; Labor market; Communication skills; Interpersonal relations; College curriculum; Cluster analysis; Professional competence

144 NAL Call No: 275.9 N213
Meeting general education requirements for computing skills by revamping a science-based dairy management course.
Kazmer, G.W.
Urbana, Ill. : National Association of Colleges and Teachers of Agriculture.
NACTA journal v. 35 (4): p. 41-43; 1991 Dec. Includes references.

Language: English

Descriptors: Connecticut; Dairy education; Dairy science; Educational courses; Computer assisted instruction

145 NAL Call No: 275.9 N213
The merit of service courses.
Lyons, R.E.
Urbana, Ill. : National Association of Colleges and Teachers of Agriculture.
NACTA journal v. 36 (4): p. 32-34; 1992 Dec. Includes references.

Language: English

Descriptors: Agricultural education; Horticulture; College curriculum

146 NAL Call No: 275.9 N213
Methods.
Pals, D.A.
Urbana, Ill. : National Association of Colleges and Teachers of Agriculture.
NACTA journal v. 34 (3): p. 10-11; 1990 Sep. Paper presented at the "36th Annual NACTA Conference, June 17-20, 1990, Morrisville College, Morrisville, N.Y. Includes references.

Language: English

Descriptors: Teaching methods; Colleges; Decision making; College students; Systems approach

147 NAL Call No: S530.J6
A model laboratory system for teaching concepts important in soil microbiology.
Fennessy, M.S.; Sims, G.K.; Kehrmeyer, S.R.
Madison, Wis. : American Society of Agronomy.
Journal of natural resources and life sciences education v. 21 (1): p. 79-83; Spring 1992. Includes references.

Language: English

Descriptors: Soil biology; Microbiology; Laboratory methods; Aromatic compounds; Denitrification; Sulfates; Teaching methods

148 NAL Call No: 49 J82
Modernizing the animal science curriculum: is change needed?
Kauffman, R.G.
Champaign, Ill. : American Society of Animal Science.
Journal of animal science v. 70 (8): p. 2593-2596; 1992 Aug. Includes references.

Language: English

Descriptors: College curriculum; Agricultural sciences; Zoology; Agricultural education

Abstract: To identify an animal science curriculum is difficult because it is a "moving target" due to changing needs and demands of our society and, more specifically, to changes in the backgrounds and interests of students. Therefore, animal science curriculums not only should change, but must change, if they are to succeed. With new technological innovations and discoveries that either modify, supplement, or change basic concepts and approaches, it is paramount that changes in courses as well as in the curriculum conform. Because of the applied nature of animal science and because of the many unknowns yet to be discovered, the curriculum should be under continual scrutiny. However, we must not fix something when it is not broken. For all practical purposes, a curriculum reflects a philosophy of what subjects should be included to complete a plan of study. After a philosophy has been established the base curriculum will seldom change significantly. When it does, it will be the result of a change in people's philosophies rather than a reflection of industry needs or student interests. Teachers should not forget how to teach most effectively the material

and must never lose sight of their goal of molding students into knowledgeable, wise, and responsible citizens in our society. To ensure that curriculums continue to improve, the following should prevail: 1) students must be adequately prepared before starting an animal science program; 2) teachers must keep current with needs of the industry by conducting research and serving the public; 3) instructors must maintain flexibility in subjects to meet needs of industry and interests and aptitudes of students; 4) unless all prerequisites have been completed, it is realistic to expect that 9 to 10 semesters will be needed to complete a program; 5) science students should be required to complete a thesis problem followed by a seminar, and business students should be required to complete a project followed by a report; and 6) a qualifying comprehensive examination should climax the program to ensure credibility of both the graduate and the program.

149 NAL Call No: 275.8 AG8
Motivating students for maximum learning.
Powers, L.
Henry, Ill. : The Magazine.
The Agricultural education magazine v. 64 (3): p. 17-18; 1991 Sep. Includes references.

Language: English

Descriptors: Agricultural education; Learning; Motivation; Teaching methods

150 NAL Call No: 275.9 N213
NACTA: opportunities in times of change.
Lindahl, T.J.
Urbana, Ill. : National Association of Colleges and Teachers of Agriculture.
NACTA journal v. 36 (3): p. 5-6; 1992 Sep.

Language: English

Descriptors: Teachers; Professional associations; Teaching methods

151 NAL Call No: 275.9 N213
A new component of the agriculture curriculum.
Rosati, R.; Henry, R.D.
Urbana, Ill. : National Association of Colleges and Teachers of Agriculture.
NACTA journal v. 35 (4): p. 16-20; 1991 Dec. Includes references.

Language: English

Descriptors: Illinois; U.S.A.; Aquaculture; Diffusion of information; Universities; Curriculum; Educational programs; Agricultural education

152 NAL Call No: 389.8 AM34
Nutrition activities in university-based fitness programs.
Lindeman, A.K.; Rosing, L.S.; Wallace, J.P.
Chicago, Ill. : The Association.
Journal of the American Dietetic Association v. 91 (2): p. 218-220. charts; 1991 Feb. Includes 5 references.

Language: English

Descriptors: Physical fitness; Wellness; Exercise; Nutrition education; Program development; Health services; Diet counseling; Teaching materials; Handbooks; Nutritional assessment; Training; College students; Nutritionists

Abstract: The purpose of this study was to assess nutrition activities in university-based fitness settings and to provide input for developing a training manual for nutrition counselors.

153 NAL Call No: TX341.J6
Nutrition course with a global perspective.
Rankins, J.
Baltimore, Md. : Williams & Wilkins.
Journal of nutrition education v. 24 (1): p. 50A-50B; 1992 Jan/Feb. Includes references.

Language: English

Descriptors: Florida; Nutrition education; Food consumption; Malnutrition; Nutrition policy; Educational objectives; Curriculum; College programs

Abstract: The case for incorporating international content into curricula in the United States is well supported, and concrete steps to achieve the goal need to be taken. This GEM is an illustration of infusing a global perspective into an introductory nutrition course for honors students at Florida State University. Since a major objective of the honors program is to increase the dimensions of learning in existing course content, we chose three content areas within the course outline for modification: Food Consumption, Malnutrition; and Nutrition Policy. A global objective and specific topics were added to each of the content areas.

154 NAL Call No: SF601.J62
Nutritional education at veterinary colleges of North America.
Bataller, N.; Thatcher, C.D.; Pelzer, K.D.; Remillard, R.L.

Blacksburg, Va. : The Association of American Veterinary Medical Colleges.
Journal of veterinary medical education v. 18 (1): p. 11-16; Spring 1991. Includes references.

Language: English

Descriptors: North America; Nutrition education; Veterinary education; Veterinary schools; Preventative nutrition; Animal nutrition; Animal health; Educational objectives; College curriculum

155 NAL Call No: aSD11.A42
Outdoor wilderness education, a leadership curriculum.
Raiola, E.O.
Fort Collins, Colo. : The Station.
General technical report RM - Rocky Mountain Forest and Range Experiment Station, U.S. Department of Agriculture, Forest Service (193): p. 168-171; 1990 Jul. In the series analytic: The Use of Wilderness for Personal Growth, Therapy, and Education / compiled by A.T. Easley, J.F. Passineau and B.L. Driver.

Language: English

Descriptors: Wilderness; Educational programs; Leadership training

156 NAL Call No: 275.8 AG8
Outlook 34 years from today.
Swan, M.K.
Henry, Ill. : The Magazine.
The Agricultural education magazine v. 63 (12): p. 13, 23; 1991 Jun. Includes references.

Language: English

Descriptors: U.S.A.; Agricultural education; Public schools; Curriculum; Educational reform; Technology

157 NAL Call No: SB1.H6
Overcoming a teaching obstacle: simplified, inexpensive, and rapid slide duplication.
Nus, J.L.
Alexandria, Va. : American Society for Horticultural Science.
HortScience v. 26 (4): p. 423; 1991 Apr. Includes references.

Language: English

Descriptors: Horticulture; Educational methods; Audiovisual aids; Photographic slides; Duplication; Rapid methods

158 NAL Call No: 275.9 N213
Perceptions of agriculture college faculty regarding integration of higher level thinking skills in the curriculum.
Foster, R.M.; Pikkert, J.J.
Urbana, Ill. : National Association of Colleges and Teachers of Agriculture.
NACTA journal v. 35 (4): p. 23-25; 1991 Dec. Includes references.

Language: English

Descriptors: Nebraska; Teachers; Agricultural colleges; Perception; Mental ability; College students

159 NAL Call No: 50.9 R24
Performance in the classroom.
Boon, W.C.; Carr, T.R.; Loveday, H.D.
Chicago, Ill. : National Live Stock and Meat Board.
Proceedings - Annual Reciprocal Meat Conference of the American Meat Science Association (44th): p. 37-42; 1992. Meeting held on June 9-12, 1991, Kansas State University, Manhattan, Kansas. Includes references.

Language: English

Descriptors: Agricultural education; Teaching methods

160 NAL Call No: 275.8 AG8
Personal computers, more than calculators and word processors!
McCaslin, N.L.
Henry, Ill. : The Magazine.
The Agricultural education magazine v. 64 (12): p. 22-23; 1992 Jun. Includes references.

Language: English

Descriptors: Agricultural education; Computer assisted instruction; Microcomputers

161 NAL Call No: S530.J6
A personal experience in the teaching-learning process.
Martini, J.A.
Madison, Wis. : American Society of Agronomy.
Journal of agronomic education v. 19 (1): p. 66-71; Spring 1990. Includes references.

Language: English

Descriptors: U.S.A.; Teaching methods; Learning experiences; Colleges; Universities; Higher education; Quality; Student participation; Program development; Cognitive development; Student teacher relationships

162 NAL Call No: 275.8 AG8
Physical science and environmental issues in agriculture: the new agricultural mechanics.
Hirschi, M.C.
Henry, Ill. : The Magazine.
The Agricultural education magazine v. 64 (9): p. 14-15; 1992 Mar.

Language: English

Descriptors: Agricultural education; Environmental education; Curriculum

163 NAL Call No: 290.9 AM32P
Planning for problem solving/higher order thinking.
Buriak, P.
St. Joseph, Mich. : The Society.
Paper - American Society of Agricultural Engineers (90-5511): 6 p. ill; 1990. Paper presented at the "1990 International Winter Meeting sponsored by The American Society of Agricultural Engineers," December 18-21, 1990, Chicago, Illinois. Includes references.

Language: English

Descriptors: Education; Problem solving; Curriculum; Teaching methods; Mental ability

164 NAL Call No: S530.J6
Plant science alumni rate their education based upon entry-level professional experience.
Long, G.A.; Straquadine, G.; Campbell, W.F.
Madison, Wis. : American Society of Agronomy.
Journal of natural resources and life sciences education v. 21 (1): p. 34-36; Spring 1992. Includes references.

Language: English

Descriptors: Plants; Science education; Agricultural education; Universities; College curriculum; Program evaluation; Surveys

165 NAL Call No: 275.8 AG8
The point system, a solution to the supervised experience program?
Fraze, S.; Vaughn, P.
Henry, Ill. : The Magazine.
The Agricultural education magazine v. 64 (6): p. 11-12; 1991 Dec.

Language: English

Descriptors: Agricultural education; Teaching methods

166 NAL Call No: 275.9 N213
Portable computer used for prompt evaluation of students' performance.
Rossetti, R.
Urbana, Ill. : National Association of Colleges and Teachers of Agriculture.
NACTA journal v. 36 (2): p. 53-55; 1992 Jun. Includes references.

Language: English

Descriptors: Microcomputers; Teaching methods; Evaluation; Videotapes; Agricultural education; College students

167 NAL Call No: 47.8 AM33P
Poultry science training, what industry needs.
Snetsinger, D.C.
Champaign, Ill. : Poultry Science Association.
Poultry science v. 71 (8): p. 1308-1312; 1992 Aug.

Language: English

Descriptors: Agricultural education; Agribusiness; Poultry farming; Agricultural research; Problem solving; College curriculum; Graduate study

Abstract: The growth and maturation of the poultry industry has shifted some of the skills and competencies required of its employees. Additional training in problem solving and increased emphasis on human resources and management skills will be required in both graduate and undergraduate programs in poultry science. Exposure to contemporary issues and the processes whereby these are addressed will be valuable. Industry needs well-trained scientists for research and technical support in many disciplines but favored are individuals who have demonstrated inquisitiveness about and knowledge of how their discipline interacts with other facets of food animal production, and business management skills. To be most effective in future positions, graduates need greater awareness of the effects of global economies and the international technology base on the domestic poultry industry. Industry and academia must find new forums for the exchange of needs and must cooperate in training in order to develop the new leaders and managers who will sustain the dynamic growth of the poultry industry well into the twenty-first century.

168 NAL Call No: S530.J6
Practical situation problem-solving exercises for crop science students.

Elkins, D.M.
Madison, Wis. : American Society of Agronomy.
Journal of agronomic education v. 19 (1): p. 101-103; Spring 1990. Includes references.

Language: English

Descriptors: Illinois; Problem solving; Learning experiences; College students; Crops; Science education; Agricultural education; Teaching methods; Program effectiveness; Program evaluation

169 NAL Call No: 389.8 AM34
Preparing nutrition counselors: Perceptions of dietetic students in a counseling practicum.
Greene, G.W.; Yesenosky, J.
Chicago, Ill. : The Association.
Journal of the American Dietetic Association v. 90 (2): p. 274-276. charts; 1990 Feb. Includes 15 references.

Language: English

Descriptors: Diet counseling; Teacher training; Teaching methods; Clinical experience; Program development; Program evaluation; Dietetic interns

Abstract: Interviewing and counseling techniques are an essential component of the education of dietetic students (1). Although students may improve interviewing skills through a workshop (2), they appear to need both an educational classroom program and a training program in a clinical setting in order to master basic counseling skills (3,4).

170 NAL Call No: HD9000.A1J68
Preparing students for careers in food distribution and marketing: an opportunity for colleges of agriculture.
Senauer, B.
Beltsville, Md. : Food Distribution Research Society.
Journal of food distribution research v. 23 (1): p. 1-7; 1992 Feb. Paper presented at the 32nd Annual Conference of the Food Distribution Research Society, October 13-16, 1991, Kalamazoo, Michigan.

Language: English

Descriptors: Minnesota; Agricultural colleges; Food marketing; Food processing; Universities; College curriculum; Career education; Career planning

171 NAL Call No: S530.A4
Priorities for college and university agricultural education faculty.
Goecker, A.D.
Carbondale, Ill. : American Association of Teacher Educators in Agriculture.
Journal of agricultural education v. 33 (3): p. 2-7; Fall 1992.

Language: English

Descriptors: Agricultural education; Teacher training; Universities; College curriculum; Educational programs; Program development

172 NAL Call No: 275.8 AG8
Problem solving teaching: Is it for everyone?
Garton, B.L.; Cano, J.
Henry, Ill. : The Magazine.
The Agricultural education magazine v. 65 (5): p. 6-8; 1992 Nov. Includes references.

Language: English

Descriptors: Problem solving; Teaching methods; Agricultural education; Learning; Student teacher relationships

173 NAL Call No: 275.8 AG8
Problem solving: the key to all levels of agricultural education.
Smick-Attisano, R.A.
Henry, Ill. : The Magazine.
The Agricultural education magazine v. 65 (5): p. 17-18; 1992 Nov. Includes references.

Language: English

Descriptors: Agricultural education; Problem solving; Teaching methods; Postsecondary education; Learning; Cognitive development

174 NAL Call No: SF601.J62
Problem-based learning vs. lecture to teach neurosurgery to third-year veterinary students.
Bauer, M.; Bill, R.; Hullinger, R.; Toombs, J.; Teclaw, R.
Blacksburg, Va. : The Association of American Veterinary Medical Colleges.
Journal of veterinary medical education v. 19 (1): p. 22-25; Winter 1992. Includes references.

Language: English

Descriptors: Veterinary education; Instruction; Teaching methods; Problem solving; Lectures; Problem analysis; Nervous system; Surgery; College curriculum; Program effectiveness

175 NAL Call No: SF601.J62
Problems in veterinary medical education: a case

of increased intergration of basic science and clinical curricula.
Turnwald, G.H.; Banks, W.J.
Blacksburg, Va. : The Association of American Veterinary Medical Colleges.
Journal of veterinary medical education v. 18 (1): p. 25-30; Spring 1991. Includes references.

Language: English

Descriptors: Veterinary medicine; Veterinary education; College curriculum; Educational objectives; Educational reform; Teaching methods; Educational innovation

176 NAL Call No: SB1.H6
Professional schools for agriculture.
Wallace, A.
Alexandria, Va. : American Society for Horticultural Science.
HortScience v. 27 (1): p. 10; 1992 Jan. Includes references.

Language: English

Descriptors: U.S.A.; Agriculture; Agricultural colleges; College curriculum

177 NAL Call No: 275.9 N213
A professor's observations about student conducted lecture interlude.
Kleiss, H.J.
Urbana, Ill. : National Association of College and Teachers of Agriculture.
NACTA journal v. 37 (4): p. 30-32; 1993 Dec. Includes references.

Language: English

Descriptors: Lectures; College students; Teaching methods; Evaluation; Participation; Agricultural education; Soil classification

178 NAL Call No: S530.A4
Projecting meat industry characteristics in the 21st century using Delphi: extrapolating curriculum content in agricultural education.
Varnadore, W.L.; Iverson, M.J.
Carbondale, Ill. : American Association of Teacher Educators in Agriculture.
Journal of agricultural education v. 32 (2): p. 29-33; Summer 1991. Includes references.

Language: English

Descriptors: Meat and livestock industry; Agricultural education; Curriculum; Projections; Delphi method

179 NAL Call No: 275.9 N213
Raising cognitive levels of college classroom instruction.
Whittington, M.S.; Newcomb, L.H.
Urbana, Ill. : National Association of Colleges and Teachers of Agriculture.
NACTA journal v. 36 (2): p. 8-11; 1992 Jun. Includes references.

Language: English

Descriptors: Agricultural education; Cognitive development; Teaching; College curriculum; Educational reform; Learning activities

180 NAL Call No: SB317.5.H68
Recruiting students by marketing horticulture.
Balbach, M.
Alexandria, VA : American Society for Horticultural Science, c1991-.
HortTechnology v. 2 (2): p. 195-196; 1992 Apr/Jun. Paper presented at the 88th American Society for Horticultural Science Meeting, "Gaining a Marketing Perspective in the University and Private Sectors," July 22, 1991, University Park, Pennsylvania. Includes references.

Language: English

Descriptors: Illinois; Horticulture; College students; College curriculum; Program evaluation; Surveys

181 NAL Call No: 1.9 P69P
Rediscoverying idea generation in a scientific discipline.
Sands, D.
St. Paul, Minn. : American Phytopathological Society.
Plant disease v. 76 (10): p. 1079-1080; 1992 Oct. Includes references.

Language: English

Descriptors: Plant pathology; Educational methods; Teaching methods; Class activities; Learning activities; Problem solving; Problem analysis

182 NAL Call No: 275.8 AG8
Refocus on the fundamentals of good teaching.
Osborne, E.W.
Henry, Ill. : The Magazine.
The Agricultural education magazine v. 64 (3): p. 4, 23; 1991 Sep. Includes references.

Language: English

Descriptors: Teaching methods; Agricultural education

183 NAL Call No: 275.8 AG8
Reinventing experience programs in agriculture.
Martin, R.A.
Henry, Ill. : The Magazine.
The Agricultural education magazine v. 64 (6): p. 20, 22; 1991 Dec. Includes references.

Language: English

Descriptors: Agricultural education; Practical education; Teaching methods

184 NAL Call No: 275.8 AG8
Relevance and the International student.
Cox, D.E.; Johnson, T.L.
Henry, Ill. : The Magazine.
The Agricultural education magazine v. 63 (10): p. 19, 22; 1991 Apr. Includes references.

Language: English

Descriptors: Foreign students; Agricultural education; College programs; Curriculum; Field trips; Work experience programs

185 NAL Call No: 99.8 F768
Remote-sensing graduate research.
Sader, S.A.; Winne, J.C.
Bethesda, Md. : Society of American Foresters.
Journal of forestry. p. 18-21; 1990 Jun. Includes references.

Language: English

Descriptors: Remote sensing; Schools; Curriculum; Surveys; Graduate study

186 NAL Call No: S530.J6
Repeatable writing assignments to enhance student writing.
Wiebold, W.J.; Buehler, R.E.; Scott, D.R.
Madison, Wis. : American Society of Agronomy.
Journal of agronomic education v. 19 (1): p. 51-54; Spring 1990. Includes references.

Language: English

Descriptors: Writing skills; College curriculum; Agronomy; Communication skills; Program evaluation

187 NAL Call No: QL55.H8
Replacement of laboratory animals in an introductory-level psychology laboratory.
Cohen, P.S.; Block, M.
Washington Grove, MD : Psychologists for the Ethical Treatment of Animals.
Humane innovations and alternatives v. 5: p. 221-225; 1991. Includes references.

Language: English

Descriptors: Laboratory animals; Animal testing alternatives; Teaching materials; Psychology; Educational courses

188 NAL Call No: 41.8 AM3
Research training in the veterinary medical curriculum.
Pritchard, W.R.
Schaumburg, Ill. : The Association.
Journal of the American Veterinary Medical Association v. 200 (1): p. 41-44; 1992 Jan01. Includes references.

Language: English

Descriptors: Veterinary medicine; Medical research; Training; Veterinary education; Veterinary profession

189 NAL Call No: QH1.A43
Resources for teaching evolutionary biology labs.
McComas, W.F.
Reston, Va. : National Association of Biology Teachers.
The American biology teacher v. 53 (4): p. 205-209; 1991 Apr.

Language: English

Descriptors: Teaching materials; Biology; Evolution

190 NAL Call No: 275.9 N213
Responding to no new money reality.
Lyon, T.L.
Urbana, Ill. : National Association of Colleges and Teachers of Agriculture.
NACTA journal v. 36 (3): p. 7-9; 1992 Sep.

Language: English

Descriptors: Agricultural colleges; Agricultural education; Natural resources; Educational programs; Program evaluation; Curriculum; Educational planning

191 NAL Call No: 99.8 F768
A review of urban forestry education in the 1990s.
Hildebrandt, R.E.; Floyd, D.W.; Koslowsky, K.M.
Bethesda, Md. : Society of American Foresters.
Journal of forestry v. 91 (3): p. 40-42; 1993 Mar. Includes references.

Language: English

Descriptors: Urban forestry; College curriculum; Professional education; Educational programs

192 NAL Call No: S530.J6
Reviewing student papers with cassette tapes.
Davis, M.
Madison, Wis. : American Society of Agronomy.
Journal of natural resources and life sciences education v. 21 (2): p. 146-148; Fall 1992. Includes references.

Language: English

Descriptors: Arkansas; Agricultural education; Audiotapes; Teaching methods; Student teacher relationships; Universities; Grading

193 NAL Call No: 321.8 J82
The role of ethnic foods in the food and nutrition curriculum.
McComber, D.R.; Postel, R.T.
Alexandria, Va. : American Home Economics Association.
Journal of home economics v. 84 (1): p. 52-54, 59; Spring 1992. Includes references.

Language: English

Descriptors: Ethnic foods; Attitudes; Culture; Wines; Curriculum; Educational performance; Dietetic education; Geography; College students

194 NAL Call No: SF207.B442
Role of the department of animal science in educating the college student.
Schmidt, G.H.
Wooster, Ohio : The Ohio State University, Ohio Agricultural Research and Development Center.
Ohio beef cattle research & industry report (92-1): p. iii-viii; 1992 Mar.

Language: English

Descriptors: Ohio; Agricultural education; Zoology; Curriculum; Dairy science; Poultry farming; Sheep farming; Universities

195 NAL Call No: LC5146.R87
Satellite delivery of graduate courses for teachers of gifted students.
Savage, L.B.
Bellingham, Wash. : National Rural Project.
Rural special education quarterly v. 10 (4): p. 29-34; 1991. Includes references.

Language: English

Descriptors: West Virginia; Special education; Teacher training; Graduate study; Rural areas; Curriculum; Objectives; Telecommunications

196 NAL Call No: S530.A4
Satisfaction with agricultural education student teaching.
Borne, C.
Carbondale, Ill. : American Association of Teacher Educators in Agriculture.
Journal of agricultural education v. 31 (2): p. 29-34; Summer 1990. Includes references.

Language: English

Descriptors: Southern states of U.S.A.; Agricultural education; Students; Teacher training; Supervision; Curriculum; Time

197 NAL Call No: 389.8 AM34
Selection criteria for approved preprofessional practice programs: Are they different from those for dietetic internships?
Sneed, J.; Carruth, B.R.
Chicago, Ill. : The Association.
Journal of the American Dietetic Association v. 91 (8): p. 950-953; 1991 Aug. Includes references.

Language: English

Descriptors: Dietetic education; Surveys; Curriculum; College programs; Test procedure; Dietetic interns

Abstract: Using a mailed questionnaire, we surveyed the directors of 41 approved preprofessional practice programs (AP4) listed in the Directory of Dietetic Programs 1990 and nine programs approved by The American Dietetic Association's Council on Education in December 1989 to determine the relative importance of admission criteria used to select students for AP4s. We compared the results of this study with those of an earlier survey of dietetic internship directors. The AP4 and dietetic internship directors gave significantly different importance ratings to elective courses in professional sciences and courses in the biological/physical sciences. Unlike dietetic internship directors, AP4 directors rated Graduate Record Examination (GRE) score highest (1.4 +/- 1.7 on a 10-point scale). AP4 directors' rating of grade point average (1.8 +/- 1.3) and professional courses (1.9 +/- 1.2) was similar to the internship directors' rating of these criteria (1.7 +/- 0.9 and

1.7 +/- 1.0, respectively). Results indicate that AP4 and internship directors seek similar qualities in students, but that GRE score is more important to AP4 directors. The AP4 directors' emphasis on GRE score may be explained, in part, by the fact that 76% (38 of 50) of these programs are affiliated with a university program, and of those 38 programs, 29 (88%) require graduate credit as a component of the AP4. These data are important to Plan IV/V faculty advisers because students may have misconceptions about differences in AP4 and internship selection criteria.

198 NAL Call No: 275.9 N213
Self ratings of students engaged in collaborative learning.
Sorensen, R.C.; Lunde, J.P.
Urbana, Ill. : National Association of College and Teachers of Agriculture.
NACTA journal v. 37 (4): p. 23-24; 1993 Dec. Includes references.

Language: English

Descriptors: Group behavior; Learning ability; Evaluation; College students; Teaching methods

199 NAL Call No: HD1751.C45
Social and ethical norms: appropriate subjects in nniversities, too.
Doering, O.
Ames, Iowa : American Agricultural Economic Association.
Choices : the magazine of food, farm and resource issues v. 6 (4): p. 38-40; 1991.

Language: English

Descriptors: Social values; Ethics; Agricultural education; College curriculum

200 NAL Call No: SD143.S64
Southern University's urban forestry program: History, structure, accomplishments and vision.
Phills, B.R.
Bethesda, MD. : The Society, 1985-.
Proceedings of the ... Society of American Foresters National Convention. p. 488-493; 1992. Paper presented at a meeting on "American Forestry , An Evolving Tradition," October 25-27, 1992, Richmond, Virginia.

Language: English

Descriptors: Louisiana; Urban forestry; Educational institutions; Curriculum

201 NAL Call No: SD143.S64
The status of urban forestry education in the 1990's.
Hildebrandt, R.E.; Floyd, D.W.; Koslowsky, K.M.
Bethesda, Md. : The Society.
Proceedings of the ... Society of American Foresters National Convention. p. 464-470; 1991. Meeting held Aug 4-7, 1991, San Francisco, California. Includes references.

Language: English

Descriptors: U.S.A.; Urban forestry; Agricultural education; Curriculum; Universities; Graduate study; Colleges; Supply balance

202 NAL Call No: 275.9 N213
Stereotypes used in teaching international agriculture impede communication.
Diamond, J.E.
Urbana, Ill. : National Association of Colleges and Teachers of Agriculture.
NACTA journal v. 36 (2): p. 51-53; 1992 Jun. Includes references.

Language: English

Descriptors: Perception; Agricultural education; Teaching methods; Communication; Terminology

203 NAL Call No: 275.8 AG8
Strategies and techniques for teaching how things work.
Harper, J.G.; McManus, M.S.
Henry, Ill. : The Magazine.
The Agricultural education magazine v. 64 (9): p. 5-7; 1992 Mar. Includes references.

Language: English

Descriptors: Agricultural education; Technology; Science education; Teaching methods

204 NAL Call No: 290.9 AM32P
Structure of knowledge for engineering curriculum redevelopment.
Fedler, C.B.; Hensley, O.D.
St. Joseph, Mich. : The Society.
Paper - American Society of Agricultural Engineers (90-5515): p. 1-19. ill; 1990. Paper presented at the "1990 International Winter Meeting sponsored by The American Society of Agricultural Engineers," December 18-21, 1990, Chicago, Illinois. Includes references.

Language: English

Descriptors: Engineering; Educational programs;

Models; Curriculum

205 NAL Call No: 275.9 N213
Student access to instructional computers as viewed by heads of agricultural economics.
Jensen, K.; English, B.; Goodman, R.
Urbana, Ill. : National Association of Colleges and Teachers of Agriculture.
NACTA journal v. 35 (1): p. 35-37; 1991 Mar. Includes references.

Language: English

Descriptors: Microcomputers; Teaching materials; Graduate study; Agricultural economics; Surveys

206 NAL Call No: 275.9 N213
Student assessment of animal science instruction for the futnre.
Walker, P.M.; Brink, D.R.; Swartz, H.A.; Dentine, M.R.
Urbana, Ill. : National Association of Colleges and Teachers of Agriculture.
NACTA journal v. 35 (4): p. 12-15; 1991 Dec. Includes references.

Language: English

Descriptors: U.S.A.; Zoology; College students; College curriculum; Educational planning; Regional surveys

207 NAL Call No: 275.9 N213
Student characteristics and the crossword puzzle as a teaching/examination tool.
Hallman, J.E.; Borcher, G.M.; Clemens, E.T.
Urbana, Ill. : National Association of Colleges and Teachers of Agriculture.
NACTA journal v. 36 (2): p. 44-47; 1992 Jun. Includes references.

Language: English

Descriptors: Test procedure; Teaching methods; College students; Individual characteristics; Learning ability

208 NAL Call No: HD1401.A56
Student perceptions of cognitive skill achievement in agribusiness management.
Conley, D.M.
New York, N.Y. : John Wiley.
Agribusiness v. 7 (2): p. 135-141; 1991 Mar. Paper presented at the annual meeting of the American Economics Association, August 6, 1990, Vancouver, British Columbia, Canada. Includes references.

Language: English

Descriptors: Agribusiness; Management games; Teaching methods; College students; College programs; Cognitive development; Student participation

209 NAL Call No: S530.J6
Student performance and attitudes as affected by noncredit laboratory quizzes.
McCrimmon, J.N.; Karnok, K.J.; Meisner, C.A.
Madison, Wis. : American Society of Agronomy.
Journal of agronomic education v. 20 (2): p. 108-110; Fall 1991. Includes references.

Language: English

Descriptors: Georgia; Agricultural education; Teaching methods; Achievement tests; Educational performance; College students; Attitudes; Learning experiences

210 NAL Call No: SB317.5.H68
Students as research partners at a 2-year agricultural college.
McMahon, R.W.; Lindquist, R.K.; Hoitink, H.A.
Alexandria, VA : American Society for Horticultural Science, c1991-.
HortTechnology v. 2 (4): p. 493-495; 1992 Oct/Dec. Includes references.

Language: English

Descriptors: Ohio; Agricultural colleges; Floriculture; Research projects; College students; Teaching methods

211 NAL Call No: 275.9 N213
Students' perceptions of a freshman seminar.
Scanlon, D.C.; Radhakrishna, R.
Urbana, Ill. : National Association of Colleges and Teachers of Agriculture.
NACTA journal v. 36 (4): p. 30-31; 1992 Dec. Includes references.

Language: English

Descriptors: Pennsylvania; Agricultural education; Colleges; Teaching methods; Evaluation

212 NAL Call No: 47.8 AM33P
A student's perspective on issues in curricula.
Climenson, J.D.
Champaign, Ill. : Poultry Science Association.
Poultry science v. 71 (8): p. 1319-1321; 1992 Aug.

Language: English

Descriptors: Agricultural colleges; Graduate study; Poultry; Universities; Curriculum

Abstract: The present paper provides a student's perspective on the poultry science curriculum and the effect of a merger of a Department of Poultry Science with a Department of Animal Science. Concerns about course offerings, scholarships, internship opportunities, and advising are explored. The importance of the poultry industry to student interest is stressed.

213 NAL Call No: HD101.S6
A student-to-student program: the Policy Fair.
White, F.C.
Experiment, Ga. : The Association.
Southern journal of agricultural economics - Southern Agricultural Economics Association v. 22 (1): p. 195-199; 1990 Jul. Includes references.

Language: English

Descriptors: Georgia; Agricultural economics; Agricultural education; Teaching methods; Student participation; Program evaluation; Innovation adoption; Surveys; Universities

Abstract: Student participation in such instructional activities as presentations, panel discussions, and projects can be used to stimulate interest and learning. Such activities need not be limited to a single class. This paper describes potential linkages between selected classes in which students from upper level or graduate classes are used as instructional resources in other classes. The general approach, which is described as a student-to-student program, has been applied in a Policy Fair. The Policy Fair is described and evaluated in this paper. There was widespread support among faculty, graduate students, and undergraduates for the general concept and this specific application.

214 NAL Call No: 275.9 N213
A summary of microcomputer use in agricultural economics.
Harris, T.R.; Garrett, J.R.
Urbana, Ill. : National Association of Colleges and Teachers of Agriculture.
NACTA journal v. 34 (4): p. 16-18; 1990 Dec. Includes references.

Language: English

Descriptors: U.S.A.; Agricultural economics; College curriculum; Teaching materials; Teaching methods

215 NAL Call No: 275.8 Ag8
Supervised agricultural experimentation.
Harper, J.G.; Atherton, J.C.
Henry, Ill. : The Agricultural Education Magazine, Inc., 1980-.
The Agricultural education magazine v. 65 (12): p. 14-15; 1993 Jun.

Language: English

Descriptors: U.S.A.; Agricultural education; University research; Agricultural research; Curriculum

216 NAL Call No: SF601.J62
Survey of the surgical curricula of veterinary colleges.
Hartmann, E.P.
Blacksburg, Va. : The Association of American Veterinary Medical Colleges.
Journal of veterinary medical education v. 17 (1): p. 8-10; Spring 1990. Includes references.

Language: English

Descriptors: U.S.A.; Veterinary education; Surgery; College curriculum; Surveys; Laboratory animals; Teaching methods; Animal testing alternatives; Animal welfare

217 NAL Call No: S530.J6
A survey of two-year and four-year turfgrass management teaching programs in the United States. II. Teaching methods, organization, and topical content.
Peacock, C.H.; Dudeck, A.E.
Madison, Wis. : American Society of Agronomy.
Journal of agronomic education v. 20 (2): p. 83-86; Fall 1991. Includes references.

Language: English

Descriptors: U.S.A.; Lawns and turf; Management; Instruction; Training; Educational programs; College programs; Teaching methods; Program evaluation; Surveys

218 NAL Call No: SF601.J62
Survival vs. terminal animal laboratories to teach small animal surgery.
Bauer, M.S.; Glickman, N.; Salisbury, S.K.; Toombs, J.P.; Prostredny, J.M.
Blacksburg, Va. : The Association of American Veterinary Medical Colleges.
Journal of veterinary medical education v. 19 (2): p. 54-58; Spring 1992. Includes references.

Language: English

Descriptors: Dogs; Cats; Surgery; Teaching methods; Animal experiments; Cadavers; Euthanasia; Survival; Veterinary education; College students; Attitudes; Beliefs; Learning experiences; Academic achievement; Animal welfare

219 NAL Call No: 275.8 AG8
Teach to your students' strengths.
Flowers, J.
Henry, Ill. : The Magazine.
The Agricultural education magazine v. 63 (3): p. 8-9; 1990 Sep. Includes references.

Language: English

Descriptors: Agricultural education; Learning ability; Teaching methods; Instruction; Case studies

220 NAL Call No: 275.8 AG8
Teachers making a difference: Miller and McNutt, a case study.
Bruening, T.H.; Hoover, T.
Henry, Ill. : The Magazine.
The Agricultural education magazine v. 64 (4): p. 17-19; 1991 Oct. Includes references.

Language: English

Descriptors: Pennsylvania; Teachers; Agricultural education; Biotechnology; Curriculum; Food sciences

221 NAL Call No: 49 J82
Teaching animal welfare in the land grant universities.
Friend, T.H.
Champaign, Ill. : American Society of Animal Science.
Journal of animal science v. 68 (10): p. 3462-3467; 1990 Oct. Includes references.

Language: English

Descriptors: Animal welfare; Teaching; Curriculum; Agricultural colleges; Bioethics; History; Legislation

222 NAL Call No: SF601.J62
Teaching clinical veterinary anesthesia with an interactive videodisc simulation: perceptual and academic results.
Swanson, C.R.
Blacksburg, Va. : The Association of American Veterinary Medical Colleges.
Journal of veterinary medical education v. 18 (1): p. 17-20; Spring 1991. Includes references.

Language: English

Descriptors: North Carolina; Anesthesia; Veterinary education; Teaching methods; Videodiscs; Computer simulation; Computer assisted instruction; Program effectiveness; Academic achievement

223 NAL Call No: 389.8 AM34
Teaching computer-aided nutrition assessment via self-instructional modules.
Pearson, J.M.
Chicago, Ill. : The Association.
Journal of the American Dietetic Association v. 92 (2): p. 223-224; 1992 Feb. Includes references.

Language: English

Descriptors: Dietetic education; Computer software; Nutritional assessment; Individualized instruction; Computer assisted instruction; College students

Abstract: The purpose of this article is to describe the design, use, and preliminary evaluation of four self-instructional modules related to computer-aided nutrition assessment. These modules can be used in a variety of undergraduate and graduate nutrition courses.

224 NAL Call No: 275.9 N213
Teaching "experience" with simulation gaming: an application of "green revolution/exaction".
Bernardo, D.J.; Sanders, L.D.
Urbana, Ill. : National Association of Colleges and Teachers of Agriculture.
NACTA journal v. 37 (2): p. 28-32; 1993 Jun. Includes references.

Language: English

Descriptors: Oklahoma; College students; Simulation; Game theory; Green revolution; Agricultural production; College curriculum; Universities; Teaching methods

225 NAL Call No: 280.8 J822
Teaching innovations in agricultural economics: an economic approach.
Dahlgran, R.A.
Ames, Iowa : American Agricultural Economics Association.
American journal of agricultural economics v. 72 (4): p. 873-882; 1990 Nov. Includes references.

Language: English

Descriptors: Agricultural economics; Teaching methods; Innovations; College students; Motivation; Production functions; Opportunity costs; Cost benefit analysis; Econometric models; Futures trading

Abstract: An economic learning model, with time inputs of instructional preparation, classroom contact, and student preparation under both innovative and traditional teaching methods, is developed and used to evaluate teaching innovations in agricultural economics. The model's implications for evaluating teaching innovations are developed and tested. The conclusions are as follows: a comparison of test scores for experimental and control groups to evaluate teaching innovations ignores the efficiency impacts of "labor-saving" innovations; students can provide useful data for evaluating teaching innovations; and economic cost-benefit concepts should guide conclusions about the effectiveness of innovations.

226 NAL Call No: 275.9 N213
Teaching leadership: principles and approaches for an undergraduate leadership course.
Jimmerson, R.M.
Urbana, Ill. : National Association of Colleges and Teachers of Agriculture.
NACTA journal v. 35 (2): p. 50-53; 1991 Jun. Includes references.

Language: English

Descriptors: Agricultural colleges; Curriculum; Leadership training; Skills

227 NAL Call No: SB1.H6
Teaching philosophy and techniques.
Rogers, M.N.
Alexandria, Va. : American Society for Horticultural Science.
HortScience v. 25 (7): p. 730-731; 1990 Jul.

Language: English

Descriptors: Horticulture; Teaching methods; Universities; Teaching materials

228 NAL Call No: 275.8 AG8
Teaching students with different learning styles.
Raven, M.
Henry, Ill. : The Magazine.
The Agricultural education magazine v. 65 (3): p. 5-6, 15; 1992 Sep. Includes references.

Language: English

Descriptors: Learning ability; Teaching methods; Learning theory

229 NAL Call No: SF601.J62
Teaching swine population medicine: from concept to clinical application.
Martineau, G.P.; Vaillancourt, J.P.
Blacksburg, Va. : The Association of American Veterinary Medical Colleges.
Journal of veterinary medical education v. 17 (2): p. 45-49; Fall 1990. Includes references.

Language: English

Descriptors: Pigs; Herds; Populations; Individuals; Veterinary medicine; Veterinary education; Teaching methods; Animal diseases

230 NAL Call No: SB1.H6
Teaching the principles of landscape bidding with an electronic spreadsheet.
Beattie, D.J.; Ragan, L.C.
Alexandria, Va. : American Society for Horticultural Science.
HortScience v. 25 (10): p. 1299-1301. ill; 1990 Oct. Includes references.

Language: English

Descriptors: Landscape architecture; Estimated costs; Estimates; Teaching methods; Computer assisted instruction; Educational methods; Design calculations; Computer software; Microcomputers

231 NAL Call No: 275.8 AG8
Teaching tips: motivating with an electronic game.
Linvill, D.; McLendon, D.; Iverson, M.J.
Henry, Ill. : The Magazine.
The Agricultural education magazine v. 64 (3): p. 5, 22-23; 1991 Sep.

Language: English

Descriptors: College students; Educational games; Motivation; Teaching methods; Agricultural education

232 NAL Call No: 275.8 AG8
Teaching tips: plant tissue testing.
Osborne, E. (ed.)
Henry, Ill. : The Magazine.
The Agricultural education magazine v. 63 (7): p. 17; 1991 Jan.

Language: English

Descriptors: Agricultural education; Teaching

methods; Plants; Foliar diagnosis

233 NAL Call No: 275.8 AG8
Teaching tips: turning SOE program expansion into a game.
Osborne, E.
Henry, Ill. : The Magazine.
The Agricultural education magazine v. 62 (10): p. 20-21. ill; 1990 Apr.

Language: English

Descriptors: Illinois; Teaching materials; Educational games; Agricultural education

234 NAL Call No: HQ1.F36
Teaching university-level family studies courses: techniques and outcomes.
Sollie, D.L.; Kaetz, J.F.
Minneapolis, Minn. : The National Council on Family Relations.
Family relations v. 41 (1): p. 18-24; 1992 Jan. Includes references.

Language: English

Descriptors: U.S.A.; Family life education; Interpersonal relations; Teaching methods; Universities; Educational objectives; Program evaluation

235 NAL Call No: SF601.J62
Teaching veterinary surgery in the operating room.
Johnson, A.L.; Farmer, J.A.
Blacksburg, Va. : The Association of American Veterinary Medical Colleges.
Journal of veterinary medical education v. 17 (1): p. 10-12; Spring 1990. Includes references.

Language: English

Descriptors: Veterinary education; Surgery; Teaching methods; Instruction

236 NAL Call No: 275.8 AG8
Teaching vs. managing instruction with computers.
Osborne, E.
Henry, Ill. : The Magazine.
The Agricultural education magazine v. 64 (8): p. 3-4; 1992 Feb.

Language: English

Descriptors: Agricultural education; Computer assisted instruction; Teaching methods

237 NAL Call No: HD1401.A56
Testing for personality bias in evaluating agribusiness students.
Conley, D.M.; Simon, D.
New York, N.Y. : John Wiley and Sons.
Agribusiness v. 9 (2): p. 119-127; 1993 Mar. Paper presented at the annual meeting of the American Agricultural Economics Association, August 11, 1992, Baltimore, Maryland. Includes references.

Language: English

Descriptors: College students; Teachers; Agribusiness; Individual characteristics; Temperament; Distribution; Comparisons; Psychological factors; Tests; Agricultural education; Academic achievement; Teaching methods; Evaluation

238 NAL Call No: 275.8 AG8
Thinking on your feet, a new life skill?
Conjura-Colgan, N.; Rollins, T.
Henry, Ill. : The Magazine.
The Agricultural education magazine v. 64 (2): p. 15-16, 23; 1991 Aug.

Language: English

Descriptors: Problem solving; Agricultural education; Teaching methods; Educational methods; Landscaping; Learning activities; Class activities; Problem analysis; Decision making

239 NAL Call No: 275.9 N213
Toward teaching at higher levels of cognition: teaching the process of agricultural writing.
Elefson, J.O.
Urbana, Ill. : National Association of Colleges and Teachers of Agriculture.
NACTA journal v. 36 (2): p. 11-15; 1992 Jun. Includes references.

Language: English

Descriptors: Writing skills; Agricultural education; Cognitive development; Teaching methods; Objectives; Evaluation; Educational courses

240 NAL Call No: 275.9 N213
A tutor effectiveness course.
Johnson, C.; Zimmerman, A.; Houston, L.
Urbana, Ill. : National Association of Colleges and Teachers of Agriculture.
NACTA journal v. 37 (2): p. 21-24; 1993 Jun. Includes references.

Language: English

Descriptors: Ohio; Writing skills; Agricultural colleges; College curriculum; Volunteers; College stu-

dents; Peer tutoring

241 NAL Call No: 275.8 AG8
The ultimate.
Camp, S.S.
Henry, Ill. : The Magazine.
The Agricultural education magazine v. 65 (5): p. 16-17; 1992 Nov. Includes references.

Language: English

Descriptors: Agricultural education; Problem solving; Teaching methods; Mental ability

242 NAL Call No: HD101.S6
Undergraduate education in departments of agricultural economics in the South: status, challenges, and opportunities.
Adrian, J.
Experiment, Ga. : The Association.
Southern journal of agricultural economics - Southern Agricultural Economics Association v. 22 (1): p. 1-9; 1990 Jul. Paper presented at the annual meeting of the Southern Agricultural Economics Association, February 3-7, 1990, Little Rock, Arkansas. Includes references.

Language: English

Descriptors: South central states of U.S.A.; South eastern states of U.S.A.; Agricultural economics; Agricultural education; Higher education; Curriculum; Program evaluation; Educational reform; Teachers; Roles; Program development; Recruitment; Trends; Literature reviews

243 NAL Call No: SB1.H6
An undergraduate laboratory project for Greenhouse Management and related courses in plant sciences.
Lyons, R.E.
Alexandria, Va. : American Society for Horticultural Science.
HortScience v. 25 (10): p. 1214-1217. ill; 1990 Oct. Includes references.

Language: English

Descriptors: Greenhouse crops; Greenhouse culture; Educational methods; Horticulture; College curriculum; Crop management

244 NAL Call No: 275.9 N213
Undergraduate preparation for agricultural, food, and environmental science careers.
Goecker, A.D.
Urbana, Ill. : National Association of Colleges and Teachers of Agriculture.
NACTA journal v. 36 (3): p. 9-12; 1992 Sep. Includes references.

Language: English

Descriptors: College students; Career development; Educational reform; Agricultural education; Curriculum; Science education; Environment; Food sciences

245 NAL Call No: 275.9 N213
Undergraduate resource/development teachiug programs in the South.
McNamara, K.T.; Bergstrom, J.C.
Urbana, Ill. : National Association of Colleges and Teachers of Agriculture.
NACTA journal v. 34 (1): p. 26-30; 1990 Mar. Includes references.

Language: English

Descriptors: Agricultural education; Teaching methods; Universities; Resource development

246 NAL Call No: HD1411.O3
Undergraduated curriculum review in agricultural economics: translating review into change at Ohio State University.
Zulauf, C.
Columbus : The Department.
ESO - Ohio State University, Dept. of Agricultural Economics and Rural Sociology (1747): 11 p.; 1990 Aug.

Language: English

Descriptors: Ohio; Agricultural economics; College curriculum; Universities; Educational objectives

247 NAL Call No: TX341.J6
A university health promotion course.
Carlson, J.; Robison, J.; Song, W.; Heusner, W.; VanHuss, W.
Baltimore, Md. : Williams & Wilkins.
Journal of nutrition education v. 23 (3): p. 138C-138D; 1991 May/Jun. Includes references.

Language: English

Descriptors: Michigan; Health promotion; Exercise; Fitness; Health education; Nutrition education; Educational objectives; Behavior change; Curriculum; College students

Abstract: The objectives of this course are to provide students with health promotion knowledge, skills, and personal awareness in the areas of ex-

ercise and fitness, nutrition, substance abuse, stress management, and safety.

248 NAL Call No: 275.8 AG8
Urban mechanization and then some!
Black, T.R.; Harper, J.G.
Henry, Ill. : The Magazine.
The Agricultural education magazine v. 64 (4): p. 9-10; 1991 Oct.

Language: English

Descriptors: Agricultural education; Mechanics; Urban areas; Curriculum

249 NAL Call No: SF601.J62
Use of a problem-solution method to teach basic physiology of the urinary system.
Wilke, W.L.
Blacksburg, Va. : The Association of American Veterinary Medical Colleges.
Journal of veterinary medical education v. 18 (2): p. 46-48; Fall 1991. Includes references.

Language: English

Descriptors: Renal function; Animal physiology; Veterinary education; Teaching methods; Problem solving; Program evaluation

250 NAL Call No: S530.J6
Use of desired student outcomes in devising agronomic curricula.
Grabau, L.
Madison, Wis. : American Society of Agronomy.
Journal of agronomic education v. 19 (1): p. 47-51; Spring 1990. Includes references.

Language: English

Descriptors: Agronomy; College curriculum; Technical training; Information; Transfer; Teaching methods; Models; College students; Attitudes

251 NAL Call No: 275.8 AG8
Using a portable computer to evaluate students' performance.
Rossetti, R.
Henry, Ill. : The Magazine.
The Agricultural education magazine v. 64 (8): p. 15-17; 1992 Feb.

Language: English

Descriptors: Ohio; Computer assisted instruction; Computer techniques; Educational methods; Educational performance; Public speaking

252 NAL Call No: 275.9 N213
Using computer assisted hypermedia in the classroom.
DeFelice, M.S.; Monson, M.J.
Urbana, Ill. : National Association of Colleges and Teachers of Agriculture.
NACTA journal v. 37 (2): p. 40-43; 1993 Jun. Includes references.

Language: English

Descriptors: Missouri; Agricultural education; Computer assisted instruction; Teaching methods; Pilot projects

253 NAL Call No: 275.9 N213
Using computers to teach the art of management.
Rhodus, W.T.
Urbana, Ill. : National Association of Colleges and Teachers of Agriculture.
NACTA journal v. 34 (1): p. 48-50; 1990 Mar. Includes references.

Language: English

Descriptors: Agricultural education; Computer assisted instruction; Teaching; Cognitive development; Management development

254 NAL Call No: S530.J6
Using crop models in a beginning crop science laboratory.
Meisner, C.A.; Karnok, K.J.; McCrimmon, J.N.
Madison, Wis. : American Society of Agronomy.
Journal of agronomic education v. 20 (2): p. 157-158; Fall 1991. Includes references.

Language: English

Descriptors: Crop production; Models; Computer simulation; Teaching methods; College curriculum; Student participation; Attitudes; Laboratories; Learning activities

255 NAL Call No: S530.J6
Using the software package "MathCAD" as a tool to teach soil physics.
Cassel, D.K.; Elrick, D.E.
Madison, Wis. : American Society of Agronomy.
Journal of natural resources and life sciences education v. 21 (1): p. 74-78; Spring 1992. Includes references.

Language: English

Descriptors: Soil physics; Computer software; Water transport; Solutes; Mathematics; Computer assisted instruction; Graduate study; College stu-

dents

256 NAL Call No: S530.J6
Using videotapes to supplement lecture and laboratory material in a turfgrass management course.
McCrimmon, J.N.; Karnok, K.J.; Meisner, C.A.
Madison, Wis. : American Society of Agronomy.
Journal of natural resources and life sciences education v. 21 (2): p. 129-132; Fall 1992. Includes references.

Language: English

Descriptors: Georgia; Lawns and turf; Agricultural education; Videotapes; Teaching methods; Multimedia instruction

257 NAL Call No: TX341.J6
Using World Food Day as a teaching tool.
Byrne, J.C.
Baltimore, Md. : Williams & Wilkins.
Journal of nutrition education v. 23 (5): p. 260H. ill; 1991 Sep/Oct. Includes references.

Language: English

Descriptors: Indiana; Nutrition education; Food and agriculture organization; Teaching methods; Community programs; Educational objectives; Educational methods

Abstract: World Food Day is celebrated annually on, or near, October 16 as a commemoration of the founding of the Food and Agricultural Organization of the United Nations. Each year World Food Day highlights a special aspect of the world food situation, and local groups are encouraged to tailor activities related to World Food Day to the needs and interest of their community.

258 NAL Call No: SB317.5.H68
Using writing in horticultural education.
Berghage, R.D.; Lownds, N.K.
Alexandria, VA : American Society for Horticultural Science.
HortTechnology v. 1 (1): p. 124-126; 1991 Oct/Dec. Includes references.

Language: English

Descriptors: Horticulture; Writing skills; Agricultural education; Higher education; Science education; Teaching methods

259 NAL Call No: S530.J6
A variety selection exercise that teaches individual and collaborative problem solving.
Anderson, W.A.
Madison, Wis. : American Society of Agronomy.
Journal of natural resources and life sciences education v. 21 (2): p. 153-155; Fall 1992. Includes references.

Language: English

Descriptors: Minnesota; Medicago sativa; Agricultural education; Problem solving; Teaching methods; Cultivars

260 NAL Call No: HD1751.C45
Vested interests, organization inertia, and market shares: a commentary on academic obsolescence.
Bromley, D.W.
Ames, Iowa : American Agricultural Economics Association.
Choices : the magazine of food, farm and resource issues v. 7 (3): p. 58-59; 1992.

Language: English

Descriptors: Agricultural economics; Universities; College curriculum; Educational reform

261 NAL Call No: 275.9 N213
Video provides essential feedback for course in livestock judging.
Eversole, D.E.
Urbana, Ill. : National Association of Colleges and Teachers of Agriculture.
NACTA journal v. 34 (4): p. 19-20; 1990 Dec. Includes references.

Language: English

Descriptors: Agricultural education; Livestock; Exhibitions; Videotapes; Teaching methods; Oral communication

262 NAL Call No: 275.8 AG8
Weathering the thunderstorm of change toward the year 2025.
Frick, M.J.
Henry, Ill. : The Magazine.
The Agricultural education magazine v. 63 (12): p. 12-19; 1991 Jun. Includes references.

Language: English

Descriptors: U.S.A.; Agricultural education; Educational innovation; Educational reform; Instruction; Teaching methods

263 NAL Call No: SB610.W39
WEEDING: a Weed Ecology and Economic Deci-

sion Making INstructional Game.
Wiles, L.J.; Wilkerson, G.G.; Coble, H.D.
Champaign, Ill. : The Society.
Weed technology : a journal of the Weed Science Society of America v. 5 (4): p. 887-893; 1991 Oct/Dec. Includes references.

Language: English

Descriptors: Glycine max; Weed control; Decision making; Simulation models; Computer assisted instruction; Teaching materials; Computer games; Educational games

264 NAL Call No: TX341.J6
Weekend meals for the homeless.
Magnus, M.H.; Hales, A.; Eyster, J.
Baltimore, Md. : Williams & Wilkins.
Journal of nutrition education v. 24 (1,suppl.): p. 78C; 1992 Jan/Feb.

Language: English

Descriptors: New York; Emergency feeding; Hunger; Community involvement; Educational planning; Weekend visits; Food supply; College curriculum; College students

Abstract: In the spring of 1987, we made a connection between the students in the School of Hotel Administration at Cornell University and homeless and hungry people. We recognized that while students in the hotel school were learning to house and feed large groups of people, there were other individuals in the community who were also trying to house and feed large groups of people, but without the expertise or the resources, and at a very different price. The same skills that had become second-nature to our students were the ones that directors of shelters and community kitchens lacked and were seeking. Thus, we designed and offered a new course at Cornell University entitled "Housing and Feeding the Homeless." The course had two major components: 1) classroom instruction concerning the issues of homelessness and hunger; and 2) a class project requiring a field placement. Among the projects was the Weekend Meals Program, which has since been institutionalized in the community as a service offering Saturday lunch and Sunday supper, at no cost, to those in need.

265 NAL Call No: 321.8 J82
Wellness in the home economics curriculum.
Crockett, S.J.; Bennett, C.M.; Brown, G.
Alexandria, Va. : American Home Economics Association.
Journal of home economics v. 82 (3): p. 21-25. charts; Fall 1990. Includes 15 references.

Language: English

Descriptors: Home economics education; Curriculum; Wellness; Nutrition education; Surveys; Attitudes; Health promotion

Abstract: This article describes the major characteristics of the wellness movement. The program in health promotion and wellness in the College of Home Economics at North Dakota State University in Fargo is presented as an example of a successful curriculum. Survey results identify wellness courses, programs and services, and attitudes toward wellness and heath promotion in U.S. home economics programs.

266 NAL Call No: 275.8 AG8
A western reaction to the National Research Council Report.
Carpenter, D.; Bishop, D.
Henry, Ill. : The Magazine.
The Agricultural education magazine v. 62 (9): p. 20-21. ill; 1990 Mar. Includes references.

Language: English

Descriptors: U.S.A.; Agricultural education; Curriculum

267 NAL Call No: SF601.J62
The Wisconsin senior rotation in ambulatory service: a new aproach to on-farm instruction in large animal medicine, surgery, and herd health management.
MacWilliams, P.S.; Easterday, B.C.; McGuirk, S.M.
Blacksburg, Va. : The Association of American Veterinary Medical Colleges.
Journal of veterinary medical education v. 19 (1): p. 15-18; Winter 1992. Includes references.

Language: English

Descriptors: Wisconsin; Veterinary education; On-farm training; Veterinary medicine; College curriculum; Large animal practice; Clinical experience; Practical education; Livestock; Teaching methods

268 NAL Call No: 275.8 AG8
Writing and learning skills, a good combination in agricultural education.
Flowers, J.; Reaves, R.
Henry, Ill. : The Magazine.

The Agricultural education magazine v. 64 (3): p. 9-10, 16; 1991 Sep. Includes references.

Language: English

Descriptors: Agricultural education; Writing skills; Learning; Teaching methods

269 NAL Call No: SB317.5.H68
Writing assignments for horticulture courses.
Wehner, D.J.
Alexandria, VA : American Society for Horticultural Science, c1991-.
HortTechnology v. 3 (4): p. 456-458; 1993 Oct/Dec. Includes references.

Language: English

Descriptors: Horticulture; Agricultural education; Higher education; Writing skills; Educational courses; Teaching methods; Educational methods

270 NAL Call No: 275.9 N213
The writing intensive experience in a poultry production course.
Firman, J.D.
Urbana, Ill. : National Association of Colleges and Teachers of Agriculture.
NACTA journal v. 36 (2): p. 19-20; 1992 Jun. Includes references.

Language: English

Descriptors: Missouri; Writing skills; Poultry; Animal production; College curriculum; Educational courses

271 NAL Call No: 275.9 N213
Writing to learn in agriculture and natural resources courses.
Smith, L.; Charnley, J.; McCall, W.
Urbana, Ill. : National Association of Colleges and Teachers of Agriculture.
NACTA journal v. 37 (2): p. 32-35; 1993 Jun. Includes references.

Language: English

Descriptors: Michigan; Writing skills; Learning activities; College curriculum; Agricultural education; Natural resources; Educational programs; Teachers; Universities

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