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**TITLE 511 INDIANA STATE BOARD OF
EDUCATION**

Proposed Rule
LSA Document #04-317

DIGEST

Amends 511 IAC 6.1-5.1 to add, delete, and rename approved high school courses in the multidisciplinary, business technology education and technology education, and vocational-technical program areas. Effective 30 days after filing with the secretary of state.

511 IAC 6.1-5.1-1 **511 IAC 6.1-5.1-10.1**
511 IAC 6.1-5.1-9 **511 IAC 6.1-5.1-11**

SECTION 1. 511 IAC 6.1-5.1-1 IS AMENDED TO READ AS FOLLOWS:

511 IAC 6.1-5.1-1 Multidisciplinary courses

Authority: IC 20-1-1-6; IC 20-1-1.2-18

Affected: IC 20-10.1

Sec. 1. (a) The following multidisciplinary courses may be offered:

- (1) Basic skills development.
- (2) Cadet teaching experience.
- ~~(3) Introduction to computer applications.~~
- ~~(4)~~ (3) Environmental studies (L).
- ~~(5)~~ (4) Humanities.
- ~~(6)~~ (5) Junior reserve officer training corps.
- ~~(7)~~ (6) Musical theatre (L).
- ~~(8)~~ (7) Peer tutoring.
- ~~(9)~~ (8) Career information and exploration.
- (9) Career exploration internship.**
- (10) Driver education (L).
- (11) Motorcycle safety education (L).

(b) ~~After July 1, 2001,~~ Schools involved in Project Lead the Way, a pre-engineering program, may offer the following:

- (1) Engineering design and development (L).
- (2) Digital electronics (L).

(c) For establishing majors and minors, multidisciplinary courses shall be applied to an area of study to which a significant portion of the course content is closely related.

(d) In order to use the courses listed in this section toward the thirty-eight (38) credit requirements, any course that is suffixed with a capital "L" in parentheses is to be presented as a laboratory course, as defined at ~~511 IAC 6.1-1-2(f)~~ **511 IAC 6.1-1-2(m)**.

(e) Cadet teaching experience for high school pupils is limited to kindergarten through grade 9. Credit is granted on the same basis as any other course. (*Indiana State Board of Education; 511 IAC 6.1-5.1-1; filed Nov 8, 1990, 3:05 p.m.: 14 IR 654; filed Nov 4, 1999, 10:08 a.m.: 23 IR 566, eff Jul 1, 2000; filed Dec 2, 2001, 12:22 p.m.: 25 IR 1141*)

SECTION 2. 511 IAC 6.1-5.1-9, AS AMENDED AT 28 IR 964, SECTION 8, IS AMENDED TO READ AS FOLLOWS:

511 IAC 6.1-5.1-9 Business, marketing, and information technology; technology education

Authority: IC 20-1-1-6; IC 20-1-1.2-18

Affected: IC 20-10.1

Sec. 9. The following courses may be offered in the business, **marketing, and information** technology ~~education~~ and technology education areas of study:

(1) The following business, **marketing, and information** technology ~~education~~ courses:

~~(A) The following business technology education and economics courses:~~

~~(i) (A) Accounting I.~~

~~(ii) (B) Accounting II.~~

~~(C) Advanced business, college credit.~~

~~(D) Business, college prep.~~

~~(E) Business and personal law.~~

~~(iii) (F) Business foundations.~~

~~(iv) Computer applications.~~

~~(v) Computer applications, advanced.~~

~~(vi) Computer keyboarding/document formatting.~~

~~(vii) Computer programming.~~

~~(viii) Digital communication tools.~~

~~(ix) Marketing.~~

~~(x) (G) Business mathematics. personal finance.~~

~~(xi) Shorthand/notehand.~~

~~(B) The following advanced business technology education and economics courses:~~

~~(i) Business, college level.~~

~~(ii) Business and personal law.~~

~~(iii) (H) Business management.~~

~~(I) Computer applications.~~

~~(iv) (J) Computer science A, advanced placement.~~

~~(v) (K) Computer science AB, advanced placement.~~

~~(L) Computer applications, advanced.~~

~~(M) Computer programming.~~

~~(vi) (N) Desktop publishing.~~

~~(O) Digital communication tools.~~

~~(vii) (P) Entrepreneurship.~~

~~(viii) Financial services and planning.~~

~~(ix) (Q) Global economics.~~

~~(x) (R) International business.~~

~~(S) Marketing.~~

~~(T) Personal finance.~~

~~(xi) (U) Technical/business communication.~~

~~(V) Web design.~~

(2) The following technology education courses:

~~(A) The following technology education courses:~~

~~(i) (A) Communication systems (one (1) semester).~~

~~(ii) (B) Construction systems (one (1) semester).~~

~~(iii) (C) Manufacturing systems (one (1) semester).~~

~~(iv) (D) Transportation systems (one (1) semester).~~

~~(v) (E) Communication processes (one (1) or two (2) semesters).~~

~~(vi) (F) Construction processes (one (1) or two (2) semesters).~~

~~(vii) (G) Manufacturing processes (one (1) or two (2) semesters).~~

~~(viii) (H) Transportation processes (one (1) or two (2) semesters).~~

~~(ix) (I) Design processes (one (1) or two (2) semesters).~~

~~(x) (J) Technology enterprises (one (1) semester).~~

~~(xi) (K) Technology and society (one (1) semester).~~

- ~~(xiii)~~ (L) Technology systems (one (1) or two (2) semesters).
- ~~(xiii)~~ (M) Fundamentals of engineering (one (1) semester).
- ~~(xiv)~~ (N) Computers in design and production systems (one (1) or two (2) semesters).
- ~~(B)~~ After July 1, 2001, (3) Schools involved in Project Lead the Way may substitute the following pre-engineering courses **for certain courses in subdivision (2):**
 - ~~(i)~~ (A) Introduction to engineering design (two (2) semesters) **in lieu instead** of design processes.
 - ~~(ii)~~ (B) Principles of engineering (two (2) semesters) **in lieu instead** of fundamentals of engineering.
 - ~~(iii)~~ (C) Computer integrated manufacturing (two (2) semesters) **in lieu instead** of computers in design and production systems.
- ~~(C)~~ (4) Schools involved in Project Lead the Way may also offer the following pre-engineering courses:
 - ~~(i)~~ (A) Aerospace technology.
 - ~~(ii)~~ (B) Biotechnology.
 - ~~(iii)~~ (C) Civil engineering and architecture.

(Indiana State Board of Education; 511 IAC 6.1-5.1-9; filed Nov 8, 1990, 3:05 p.m.: 14 IR 658; filed Jul 12, 1993, 10:00 a.m.: 16 IR 2853, eff Jul 1, 1993 [IC 4-22-2-36 suspends the effectiveness of a rule document for thirty (30) days after filing with the secretary of state. LSA Document #92-143 was filed Jul 12, 1993.]; filed May 24, 1995, 10:00 a.m.: 18 IR 2409; filed May 28, 1998, 4:57 p.m.: 21 IR 3826; errata filed Aug 17, 1998, 10:21 a.m.: 22 IR 127; filed Dec 2, 2001, 12:22 p.m.: 25 IR 1141; filed Jun 30, 2004, 1:45 p.m.: 27 IR 3500; filed Nov 4, 2004, 9:06 a.m.: 28 IR 964)

SECTION 3. 511 IAC 6.1-5.1-10.1, AS AMENDED AT 28 IR 957, SECTION 1, IS AMENDED TO READ AS FOLLOWS:

511 IAC 6.1-5.1-10.1 Career-technical courses

Authority: IC 20-1-1-6; IC 20-1-1.2-18

Affected: IC 20-10.1

Sec. 10.1. (a) The following courses may be offered in the ~~vocational-technical~~ **career-technical education (CTE)** area of study:

- (1) The following agricultural science and business courses:
 - (A) Fundamentals of agricultural science and business.
 - (B) The following agricultural business courses:
 - (i) Agribusiness management.
 - (ii) Agricultural mechanization.
 - (iii) Farm management.
 - (iv) Landscape management.
 - (v) Natural resource management.
 - (vi) Supervised agricultural experience.
 - (C) The following agricultural science courses:
 - (i) Animal science.
 - (ii) Food science.
 - (iii) Horticultural science.
 - (iv) Plant and soil science.
 - (v) Advanced life science: animals (L).
 - (vi) Advanced life science: plants and soils (L).
 - (vii) Advanced life science: foods (L).
- (2) The following **CTE business services and information technology education** courses:
 - (A) Career planning and success skills.
 - ~~(B) The following Business services and technology education laboratory courses: cooperative experiences.~~
 - ~~(i)~~ (C) Business technology lab I.
 - ~~(ii)~~ (D) Business technology lab II.
 - ~~(iii)~~ (E) Business management and finance.
 - ~~(iv)~~ Computer operations and/or programming.
 - (F) Career planning internship.**
 - ~~(v)~~ Computerized accounting services.
 - (G) Finance academy.**
 - ~~(vi)~~ (H) Information technology network systems.
 - ~~(vii)~~ (I) Information technology information support and services.

- ~~(viii)~~ **(J)** Information technology programming and software development.
- ~~(ix)~~ **(K)** Information technology interactive media.
- ~~(C) Business cooperative experiences (cooperative/related).~~
- (3) The following health **sciences** careers ~~education~~ courses:
 - (A) The following health **sciences** careers ~~education~~ core courses:
 - (i) Introduction to health care systems.
 - (ii) Integrated health sciences I.
 - (iii) Integrated health sciences II.
 - (iv) Introduction to dental health careers.
 - (B) The following health **sciences** careers ~~education~~ skill courses:
 - (i) Health careers I.
 - (ii) Health careers II.
 - (iii) Health careers III.
 - (iv) Introduction to medical assisting.
 - (v) Introduction to health care specialties.
 - (vi) Introduction to community health services.
 - (vii) Introduction to pharmacy.
 - (viii) Introduction to physical therapy.
 - (ix) Introduction to health care technology.
 - (x) Introduction to emergency medical services.
 - (xi) Dental assisting I, II, III, and IV.
 - ~~(C) The following health occupations; other courses:~~
 - ~~(i)~~ **(xii)** Medical terminology.
 - ~~(ii)~~ **(xiii)** Anatomy and physiology.
 - ~~(D) (C) Health career practicum (extended lab/related).~~
- (4) The following ~~one (1) semester~~ family and consumer sciences courses:
 - (A) Orientation to life and careers.
 - (B) Nutrition and wellness.
 - (C) Child development and parenting.
 - (D) Interpersonal relationships.
 - (E) Adult roles and responsibilities.
 - (F) Consumer economics.
 - (G) Chemistry of foods.
 - (H) Advanced foods and nutrition.
 - (I) Advanced child development.
 - (J) Human development and family wellness.
 - (K) Housing and ~~interiors~~: **interior design foundations.**
 - (L) ~~Textiles and Fashion technologies~~: **and textiles foundations.**
 - (M) Family and consumer sciences issues and applications.
 - (N) Advanced life sciences: foods.**
 - (O) Personal resource management and family finance.**
 - (P) Culinary arts foundations.**
- (5) The following ~~one (1) year~~ occupational family and consumer sciences courses:
 - (A) The following **education and** early childhood ~~education and services~~ **careers** courses:
 - (i) **Education and** early childhood ~~education and services~~ **I: careers I.**
 - (ii) **Education and** early childhood ~~education and services~~ **H: careers II.**
 - (B) The following ~~apparel and textile occupations and fashion careers~~ courses:
 - (i) ~~Apparel Fashion and textile occupations~~ **I: textiles careers I.**
 - (ii) ~~Apparel Fashion and textile occupations~~ **H: textiles careers II.**
 - (iii) Textile and fashion careers III.**
 - (C) The following ~~food industry occupations~~ **culinary arts** courses:
 - ~~(i) Food industry occupations~~ **I:**
 - ~~(ii) Food industry occupations~~ **H:**
 - (i) Culinary arts careers I.**

(ii) Culinary arts careers II.

(iii) Culinary arts careers III.

(D) The following housing ~~occupations I: and interior design careers I.~~ courses:

(i) Housing ~~occupations I: and interior design careers I.~~

(ii) Housing ~~occupations II: and interior design careers II.~~

(E) The following residential and ~~institutional commercial facilities and equipment management~~ courses:

(i) Residential and ~~institutional commercial facilities and equipment management I.~~

(ii) Residential and ~~institutional commercial facilities and equipment management II.~~

(F) The following human ~~and family services occupations careers~~ courses:

(i) Human ~~and family services careers I.~~

(ii) Human ~~and family services careers II.~~

(G) ~~The following cooperative occupational~~ Family and consumer sciences ~~courses: careers (FACS) field experience (co-op).~~

(i) ~~Cooperative occupational family and consumer sciences I:~~

(ii) ~~Cooperative occupational family and consumer sciences II:~~

(H) The following adult and elder care careers courses:

(i) Adult and elder care careers I.

(ii) Adult and elder care careers II.

(I) The following consumer and financial services careers courses:

(i) Consumer and financial services careers I.

(ii) Consumer and financial services careers II.

(J) The following food and nutrition science careers courses:

(i) Food and nutrition science careers I.

(ii) Food and nutrition science careers II.

(K) The following hotel academy courses:

(i) Hotel academy I.

(ii) Hotel academy II.

(6) The following trade and industrial education courses:

(A) Aerospace engineering technology.

(B) Aircraft operations.

(C) Appliance technology.

(D) Automotive collision repair technology.

(E) Automotive services technology.

(F) Aviation maintenance technology.

(G) Aviation support operations.

(H) Biotechnical engineering.

(I) Building facilities and management.

(J) Building trades technology.

(K) Cabinet and furniture manufacturing.

(L) Civil-architectural engineering.

(M) Commercial art and graphic design.

(N) Commercial photography.

(O) 3D computer animation and visualization.

(P) Computer integrated manufacturing.

(Q) Computer network technology.

(R) Computer repair and maintenance technology.

(S) Cosmetology.

(T) Diesel service technology.

(U) Digital electronics technology.

(V) Drafting and computer aided design (CAD).

(W) Electronics technology.

(X) Engineering.

(Y) Fire science.

(Z) Graphic imaging technology.

(AA) Heating, ventilation, air conditioning, and refrigeration (HVACR).

(BB) Industrial repair and maintenance.

- (CC) Law enforcement.
- (DD) Plastics technology.
- (EE) Precision machine technology.
- (FF) Recreational and portable power equipment.
- (GG) Tractor/trailer operation.
- (HH) Welding technology.
- (II) ~~The following~~ **Trade and industrial cooperative training courses: education.**

- (i) ~~Related instruction.~~
- (ii) ~~On-the-job training.~~

- (7) ~~The following~~ Interdisciplinary cooperative education. ~~courses:~~

- (A) ~~Related instruction.~~
- (B) ~~On-the-job training.~~

- (8) The following CTE marketing ~~education~~ **management and entrepreneurship** courses:

- (A) ~~The following marketing courses:~~

- (i) ~~Marketing foundations.~~
- (ii) ~~Marketing, advanced (related).~~

- (B) ~~The following specialized marketing education courses:~~

- (i) (A) Entrepreneurship.
- (ii) (B) Fashion merchandising.
- (iii) ~~Financial services marketing.~~
- (iv) (C) Hospitality, travel, and tourism.
- (D) **Marketing advanced.**
- (E) **Marketing field experience (co-op).**
- (F) **Marketing foundations.**
- (v) (G) **Marketing management** seminar.
- (vi) (H) Sports, recreation, and entertainment marketing.
- (vii) (I) Radio-TV broadcasting/telecommunications.
- (C) ~~Marketing field experiences (cooperative).~~

- (b) All of the courses listed in subsection (a) must also meet the requirements of 511 IAC 8.

(c) Schools may qualify their family and consumer sciences programs for ~~vocational~~ **career-technical** status by meeting the following additional requirements:

- (1) A minimum offering for ~~vocational~~ **career-technical** family and consumer sciences consists of teaching orientation to life and careers or interpersonal relationships every year and teaching at least four (4) additional courses from the following:

- (A) Nutrition and wellness.
- (B) Interpersonal relationships.
- (C) Child development and parenting or human development and family wellness.
- (D) Adult roles and responsibilities.
- (E) Consumer economics.
- (F) Orientation to life and careers.

This minimum offering must be taught within any consecutive two (2) year time period.

- (2) A major in ~~vocational~~ **career-technical** family and consumer sciences education consists of at least six (6) credits, including three (3) of the following:

- (A) Orientation to life and careers.
- (B) Adult roles and responsibilities.
- (C) Nutrition and wellness.
- (D) Child development and parenting or human development and family wellness.
- (E) Interpersonal relationships.

- (3) A minor in ~~vocational~~ **career-technical** family and consumer sciences consists of at least four (4) credits from the following:

- (A) Child development and parenting or human development and family wellness.
- (B) Nutrition and wellness.
- (C) Orientation to life and careers.
- (D) Adult roles and responsibilities.
- (E) Consumer economics.

(F) Interpersonal relationships.

(Indiana State Board of Education; 511 IAC 6.1-5.1-10.1; filed Jul 12, 1993, 10:00 a.m.: 16 IR 2854, eff Jul 1, 1993 [IC 4-22-2-36 suspends the effectiveness of a rule document for thirty (30) days after filing with the secretary of state. LSA Document #92-143 was filed Jul 12, 1993.]; filed May 28, 1998, 4:57 p.m.: 21 IR 3827; errata filed Aug 17, 1998, 10:21 a.m.: 22 IR 127; filed Dec 2, 2001, 12:22 p.m.: 25 IR 1143; filed Jun 30, 2004, 1:45 p.m.: 27 IR 3501; filed Nov 4, 2004, 9:00 a.m.: 28 IR 957)

SECTION 4. 511 IAC 6.1-5.1-11 IS AMENDED TO READ AS FOLLOWS:

511 IAC 6.1-5.1-11 Other acceptable courses

Authority: IC 20-1-1-6; IC 20-1-1.2-18

Affected: IC 20-1-1-6; IC 20-10.1

Sec. 11. In addition to the courses in ~~sections 1 through 10~~ of this rule, students may also use the following courses to meet the ~~thirty-eight (38)~~ **number of** credits required for graduation:

(1) Any other ~~vocational-technical~~ **career-technical** program/course developed, according to the provisions of 511 IAC 8-1, to meet the employment demands of new and emerging occupations and the career needs of students.

(2) Any advanced placement course for which the College Entrance Examination Board has developed a course description and examination.

(3) Any postsecondary career-technical education course, with content that goes beyond currently approved high school curriculum, taken for college credit through the provisions of the postsecondary enrollment rule, 511 IAC 6-10.

(Indiana State Board of Education; 511 IAC 6.1-5.1-11; filed Nov 8, 1990, 3:05 p.m.: 14 IR 663; readopted filed Oct 12, 2001, 12:55 p.m.: 25 IR 937)

Notice of Public Hearing

Under IC 4-22-2-24, notice is hereby given that on May 5, 2005 at 9:00 a.m., at the Department of Education, 151 West Ohio Street, James Whitcomb Riley Conference Room, Indianapolis, Indiana the Indiana State Board of Education will hold a public hearing on proposed amendments to add, delete, and rename approved high school courses in the multidisciplinary, business technology education and technology education, and vocational-technical program areas. Copies of these rules are now on file at 229 State House and Legislative Services Agency, One North Capitol, Suite 325, Indianapolis, Indiana and are open for public inspection.

Suellen Reed
Superintendent of Public Instruction
Indiana State Board of Education