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**TITLE 511 INDIANA STATE BOARD OF
EDUCATION**

LSA Document #04-317(F)

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 20-19-2-8; IC 20-31-4-17

Affected: IC 20-30

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; filed Dec 15, 2005, 4:00 p.m.: 29 IR 1556*)

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 20-19-2-8; IC 20-31-4-17

Affected: IC 20-30

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).~~

~~(xii) (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.
- ~~(E)~~ (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; filed Dec 15, 2005, 4:00 p.m.: 29 IR 1557)

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 20-19-2-8; IC 20-31-4-17

Affected: IC 20-30

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) Professional Career Internships.**
 - ~~(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 (+) 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 (+) 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~~ **II: 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~~ **II: 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~~ **II:**
 - (i) Culinary arts careers I.**
 - (ii) Culinary arts careers II.**
 - (iii) Culinary arts careers III.**
- (D) The following housing ~~occupations~~ **and interior design careers** courses:
- (i) Housing ~~occupations~~ **I: and interior design careers I.**

- (ii) Housing ~~occupations H~~ 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 H.
- (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 services careers courses:
 - (i) Consumer Services Careers I.
 - (ii) Consumer 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 Academy.**
 - (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; filed Dec 15, 2005, 4:00 p.m.: 29 IR 1558)

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 20-19-2-8; IC 20-31-4-17

Affected: IC 20-19-2-8; IC 20-30

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; filed Dec 15, 2005, 4:00 p.m.: 29 IR 1560)

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