88-29-16. Content requirements for qualified admission natural science courses. Each qualified admission natural science course shall meet all of the following requirements:

(a) The course shall be classified as a science course in the course description.

(b) The course shall include an average of at least one laboratory or field experience each week. The laboratory or field experiences shall meet both of the following requirements:

(1) At least two-thirds of the laboratory or field experiences shall be conducted with face-to-face contact with an instructor and with direct exposure to the organisms or processes, or both, to be studied.

(2) The laboratory or field experiences shall include instruction in the following skills:

(A) Designing and conducting scientific investigations;

(B) using technology and mathematics in science;

(C) formulating and revising scientific explanations and models using logic and evidence;

(D) recognizing and analyzing alternative explanations and models; and

(E) communicating and defending a scientific argument.

(c) The course shall meet one of the following requirements:

(1) Qualified admission advanced biology. This course shall meet all of the following requirements:

(A) If the course is offered for high school credit only, the course shall be taught by an instructor licensed to teach biology at the secondary level.

(B) Enrollment in the course shall be limited according to the following requirements:

(i) Junior or senior standing or gifted status shall be required for enrollment in the course.

(ii) A qualified admission biology course shall be a prerequisite for enrollment in the course.

(iii) If successful completion of a course in addition to a qualified admission biology course is required before enrollment in the qualified admission advanced biology course, the prerequisite course

shall meet the requirements of subsections (a) and (b) and the applicable requirements of subsection (c) of this regulation.

(C) The course shall be limited to instruction in one or more of the following topics:

(i) The structure and function of the cell;

(ii) chromosomes, genes, the molecular basis of heredity, and the major concepts of biological evolution;

(iii) the interdependence of organisms and the interaction of organisms with the physical environment;

(iv) the behavior of animals and the connection between their nervous systems and behavior; or

(v) the structure, function, and diversity of organisms.

(2) Qualified admission biology. This course shall meet all of the following requirements:

(A) If the course is offered for high school credit only, the course shall be taught by an instructor who is licensed to teach biology at the secondary level.

(B) The course shall meet the requirements in "standard 3: life science" for grades eight through 12 established by the Kansas state board of education in the "Kansas curricular standards for science education," as approved on November 8, 2005 and hereby adopted by reference.

(C) The course may include additional content upon approval of the chief executive officer of the board of regents or the chief executive officer's designee.

(3) Qualified admission chemistry. This course shall meet all of the following requirements:

(A) If the course is offered for high school credit only, the course shall be taught by an instructor who is licensed to teach chemistry at the secondary level.

(B) The course shall meet the requirements in "standard 2A: chemistry" for grades eight through 12 established by the Kansas state board of education in the "Kansas curricular standards for science education," as approved on November 8, 2005 and hereby adopted by reference.

(C) The course may include additional content upon approval of the chief executive officer of the board of regents or the chief executive officer's designee.

(4) Qualified admission earth-space science. This course shall meet all of the following requirements:

(A) If the course is offered for high school credit only, the course shall be taught by an instructor who is licensed to teach earth-space science at the secondary level.

(B) The course shall meet the requirements in "standard 4: earth and space science" for grades eight through 12 established by the Kansas state board of education in the "Kansas curricular standards for science education," as approved on November 8, 2005 and hereby adopted by reference.

(C) The course may include additional content upon approval of the chief executive officer of the board of regents or the chief executive officer's designee.

(5) Qualified admission physics. This course shall meet all of the following requirements:

(A) If the course is offered for high school credit only, the course shall be taught by an instructor who is licensed to teach physics at the secondary level.

(B) The course shall meet the requirements in "standard 2B: physics" for grades eight through 12 established by the Kansas state board of education in the "Kansas curricular standards for science education," as approved on November 8, 2005 and hereby adopted by reference.

(C) The course may include additional content upon approval of the chief executive officer of the board of regents or the chief executive officer's designee.

(6) Principles of technology. This course shall include "principles of technology: unit and subunit objectives," second edition, established by the center for occupation research and development (CORD), copyrighted 2005 and hereby adopted by reference.

This regulation shall be effective on and after August 1, 2007. (Authorized by and implementing K.S.A. 76-717; effective P-_____.)