

**681—2.25(262) Undergraduate students.**

**2.25(1) *Recommended high school preparation.*** Graduation from an approved high school shall ordinarily precede entrance into the university. The student should have: completed a program of studies designed to ensure a well-rounded background of knowledge in basic fields; developed effective study skills and work habits; developed proficiency in reading, writing, and speaking English; acquired proficiency in basic mathematics.

Each college has recommendations regarding high school background. Students who have not had the recommended background may be inadequately prepared for programs in that college.

**2.25(2) *College of agriculture.*** Although students entering the college of agriculture have no minimum subject matter requirements for admission, they will benefit by having completed three years of English/speech with emphasis in composition and communication skills, mathematics through intermediate algebra, and a strong emphasis in biology and the physical sciences (especially chemistry).

**2.25(3) *College of design.*** High school preparation for students entering the college of design should include four years of English (composition and rhetoric), one and one-half years of algebra, and two years of science (biology, chemistry, or physics). Social sciences, including a year of world history, and a background in art and drafting are also extremely helpful and highly recommended. Students planning to major in architecture should have an additional background of one-half year of algebra, one year of geometry, and one-half year of trigonometry, as well as one year each of physics and chemistry.

**2.25(4) *College of education.*** The high school program should encompass the various areas of study (English, mathematics, sciences, social studies, and humanities) which reflect a broad general background.

**2.25(5) *College of engineering.*** A student who wishes to complete an engineering curriculum in four years should have high school credit in three and one-half years of mathematics, including two years of algebra; one year of geometry; and one-half year of trigonometry. A student not having this mathematics background may still enroll in the college of engineering but should expect to spend longer than four years to earn a degree.

In addition to the mathematics background, students interested in engineering will benefit by having had four years of English and one year each of chemistry and physics.

**2.25(6) *College of home economics.*** Students will find it beneficial to have at least one and one-half years of algebra, one year of chemistry, one year of biological science, and four years of English in their high school program.

**2.25(7) *College of sciences and humanities.*** Preparation for entrance into the college should include at least four years of English composition and rhetoric, one and one-half years of algebra, one year of geometry, two years of science (chemistry, physics, or biology), and two years of a foreign language. In addition, students planning to study a science or in a science-related discipline should complete one-half year of trigonometry and an additional one-half year of algebra or analytic geometry.

**2.25(8) *College of veterinary medicine.*** Pre-veterinary students at Iowa State University enroll in either the college of agriculture or the college of sciences and humanities for their pre-professional study. It is recommended that students contemplating study in veterinary medicine complete a full program of college preparatory subjects in high school, including four years of English, at least three years of mathematics (including trigonometry), and one year each of biology, chemistry, and physics. See also veterinary medicine, admission requirements.

**2.25(9) *College of business administration.*** Students interested in studying business at Iowa State University initially enroll in the college of science and humanities in the pre-business curriculum. Students must satisfy certain minimum requirements before being admitted to the college of business administration. The requirements for admission to the college of business administration are:

a. Credit for the published foundation courses and completion of the required semester credits of general education as prescribed in the pre-business program; and

b. Achievement of a minimum cumulative grade point average.

Students enrolling before the fall of 1987 must be admitted to the college by June 1, 1989, under previous standards or meet the above admission requirements.