

Colorado State University



Core Requirements for Admission to ERHS Graduate Programs:

1. Bachelor's degree from an accredited institution
2. A copy of the applicant's resume or curriculum vitae
3. Minimum GPA of 3.0/4.0 in all prior college-level work for regular admission
4. Graduate Record Exam (GRE) scores in the general examination (verbal, quantitative and analytical writing) within 5 years
5. One official transcript from all undergraduate and graduate institutions attended (Note: CSU transcripts are not required)
6. Written statement of background, interests, motivation and goals
7. Three (3) letters of recommendation from academic or professional sources

International students only

8. TOEFL/IELTS SCORES

The minimum TOEFL score for unconditional admission is 213 (computer based); 550 (paper based); or 80 (internet based)

The minimum IELTS score for unconditional admission without condition is 6.5

Additional Section Requirements:

- **Epidemiology:**

The Epidemiology section considers applications once yearly with a deadline of March 1. Applications must be complete in order to be considered. In special circumstances, applications for the spring semester will be considered with a deadline of October 1, but this practice is strongly discouraged due to the sequence of course offerings.

-Required Courses

- One year of biology with laboratory
- One year of general chemistry with laboratory
- Mathematics meeting all calculus prerequisites

-Recommended Courses

- Organic chemistry with laboratory
- Statistics or biostatistics
- Anatomy/physiology
- Computing and data management

- **Ergonomics:**

Applications are most commonly accepted from individuals with undergraduate or graduate degrees in the health sciences, engineering, behavioral, biological, physical, or safety sciences. Previous coursework in anatomy, physiology, psychology, and statistics is strongly recommended. Each candidate is evaluated on their individual merits and qualities. Exceptions may be granted to applicants who demonstrate particular professional promise. Such exceptions may be admitted with an individually documented plan of study to compensate for any deficiencies.

Admission to the Ergonomics Training Program is based upon many factors that include academic strengths, undergraduate preparation, work experience, research experience, extracurricular activities, and other factors.

Additional Ph.D. requirement: Evidence of research capability.

- **Health Physics:**

Formal coursework in the following topics:

- Mathematics: Calculus – including limits, continuity, differentiation and integration of elementary and transcendental functions, sequences and series. Usually two semesters of calculus are sufficient.
- General Physics: Topics including the properties of forces, energy, momentum, heat, light, electrostatics, magnetism, with an understanding of dimensional analysis (quantities and units) and elementary modern physics. Usually two semesters of general physics are sufficient.

- Biology: Introduction to biology including characteristics of animals, genetics, the human body and interactions with the environment. Usually one semester of general biology is sufficient.
- Chemistry: Fundamentals of chemistry including atomic and molecular theory, gases, liquids, solids, solutions, acid/base reactions, oxidation/reduction reactions and kinetics. Usually one semester of general chemistry is sufficient.

- **Industrial Hygiene**

Admission to Industrial Hygiene is based upon many factors including, but not limited to: academic strengths, undergraduate preparation, work experience, research experience, and extracurricular activities. Applications are most commonly accepted from individuals with an earned baccalaureate degree in engineering, biological, physical, behavioral, or health sciences.

Admitted students usually have coursework in college-level mathematics, biology, chemistry, and physics. Any additional coursework in anatomy, physiology, advanced chemistry (bio, physical, organic, inorganic, etc.), statistics, research methods, and advanced mathematics is also favorable.

Each candidate is evaluated on their individual merits and qualities. **Particular emphasis is placed on each candidate's written statement.** This personal statement should be a clear and concise portrayal of the candidate's academic and professional background, their motivation to attend graduate school, their research interests and career goals, as well as any relevant strengths and distinguishing characteristics worthy of note.

Exceptions may be granted to applicants who demonstrate particular professional promise. Such exceptions may be admitted with an individually documented plan of study to compensate for any deficiencies.

Typical MS programs take two years to complete and require 30 semester credit-hours + thesis (plan A).

Qualified students may receive financial support through grants from the Graduate School, traineeships from the [NIOSH ERC](#), various scholarships, and/or research assistantships from faculty research grants.

- **Radiation Cancer Biology and Oncology**

Prior to applying to either the MS or PhD programs, students are strongly encouraged to contact a faculty member in Radiation Cancer Biology and Oncology to identify shared research interests and determine the availability of financial support.

[Link to Radiation Cancer Biology and Oncology faculty](#)

- **Toxicology**

Although not required, course work in Bio-Chemistry, Organic Chemistry and Physiology is highly recommended

Please contact [Dr. Marie Legare](#) *before* submitting your application to the Toxicology Ph.D. Graduate program for availability of positions within this program.

- **Radiation Oncology Residency Program**

For more information visit the Radiation Oncology Residency web page:
www.csuanimalcancercenter.org/radiation-oncology-residency

- **Radiology Residency Program**

For more information visit the VDI web page:
www.cvmb.colostate.edu/erhs/vdi residency.htm