

Industrial Hygiene Curricula
Revision 5
(Last Updated 3/29/2017)
Programs of Study for the M.S. (Plan A or B)

Colorado State University has a set minimum number of credits for a Plan A (thesis required) or Plan B (professional paper required) Master of Science (MS) program to 30 semester credits beyond the baccalaureate degree. No one, in any discipline, may earn the degree regardless of the program plan with less than 30 semester credits.

The Industrial Hygiene (IH) Plan B program is differentiated from the IH Plan A Program in that a thesis is not required. However, the Plan B Program requires: (1) additional course work, (2) an internship or one year of professional work experience in occupational and/or environmental health, and (3) a scholarly paper (in lieu of a thesis). The IH Plan A Program requires a minimum of 35 credits to complete the program, and the IH Plan B Program requires a minimum of 39 credits to complete the program.

The doctoral degree (PhD) requires a minimum of 72 semester credits beyond the baccalaureate degree. A maximum of 30 semester credits of the 72 required may be awarded by the graduate advisory committee (at the sole discretion of the advisory committee) for a completed master's degree.

Before the actual credit total for any degree program is finalized, the student plans a specific program of study in concert with his/her graduate committee to arrive at a minimal level of disciplinary competency appropriate to the degree sought. The plan that is developed must meet or exceed the published minimums for the degree sought. When this plan is complete, it is entered onto a form called the GS-6 ("Program of Study") and is signed by the student, the advisor, the department head, and the dean of the graduate school. When a GS-6 form is signed, it becomes the formal contract between the student and the university that guarantees award of the degree named if the program as described is successfully completed. All other program descriptors other than the GS-6 are minima or illustrative guides that may or may not be appropriate to any individual student. These descriptors do not constitute the contractual obligations between the student and the University, as does the GS-6. However, to provide the internal assurance that IH program requirements are met, upon finalization of the GS6, the academic advisor will also complete the OEHS Internal Graduation Verification Form available from the OEHS Graduate Student Coordinator. This form will be added to the student's file and a copy will be provided to the student upon graduation.

Students may solicit their academic advisor for equivalent courses taken outside of CSU. The academic advisor will compare the learning objectives of the transfer course to the OEHS IH program course and decide if they are similar enough to warrant CSU transfer credit. The academic advisor will document his/her decisions in a memorandum to the ERHS department head for approval.

INDUSTRIAL HYGIENE SPECIALIZATION

Plan A M.S. Degree Program- Required Core Courses

Minimum of 35 credits

ERHS 520 ¹	Environmental & Occupational Health Issues (3) (Fall)
ERHS 526	Industrial Hygiene (3) (Fall)
ERHS 527	Industrial Hygiene Laboratory (1) (Fall)
ERHS 528	Occupational Safety (3) (Spring, odd years)
ERHS 532	Epidemiologic Methods (3) (Fall)
ERHS 536	Advanced Occupational Health (3) (Spring, even years)
ERHS 540	Principles of Ergonomics (3) (Fall)
ERHS 637	Environment, Safety, and Health Management (3) (Fall, even years)
ERHS 679 ²	Occ and Env Health Interdisciplinary Symposium (2) (Spring)
ERHS 699	Thesis (3)
Out of Department Elective ³	
Statistics ⁴ (3)	
Elective Courses (3)	

Notes:

¹PBHL 530 may be taken as equivalent to ERHS 520.

²MAP ERC Trainees are required to take 4 credits.

³One additional course approved by student's committee.

⁴Select three credits of statistics with approval of advisor and graduate committee.

Plan B M.S. Degree Program- Required Core Courses

Minimum of 39 credits (total program credits of 39-41)

ERHS 520 ¹	Environmental & Occupational Health Issues (3) (Fall)
ERHS 526	Industrial Hygiene (3) (Fall)
ERHS 527	Industrial Hygiene Laboratory (1) (Fall)
ERHS 528	Occupational Safety (3) (Spring, odd years)
ERHS 532	Epidemiologic Methods (3) (Fall)
ERHS 536	Advanced Occupational Health (3) (Spring, even years)
ERHS 540	Principles of Ergonomics (3) (Fall)
ERHS 637	Environment, Safety, and Health Management (3) (Fall, even years)
ERHS 679 ²	Occ and Env Health Interdisciplinary Symposium (2) (Spring)
ERHS 695B ³	Independent Study: Occupational and Environmental Health (4)
Out of Department Elective ⁴	
Statistics ⁵ (3)	
Elective Courses (6)	

Notes:

¹PBHL 530 may be taken as equivalent to ERHS 520.

²MAP ERC Trainees are required to take 4 credits.

³Students are required to take ERHS 695B for the professional paper requirement.

⁴One additional course approved by the student's committee.

⁵Select three credits of statistics with approval of advisor and graduate committee.

⁶Students who do not have at least one year of occupational and/or environment health professional experience must complete an internship consisting of at least 400 hours of work time. Internships must be approved by the student's advisor and graduate committee according to the program's Internship Handbook. See course under "Electives" below.

Responsible Conduct Research Training is required of all master's students enrolled in either the Plan A or Plan B Program.

Elective Courses

Plan A - minimum of 3 credits; **Plan B** - minimum of 6 credits

ERHS 502	Fundamentals of Toxicology (3) (Fall)
ERHS 503	Toxicology Principles (1) (Spring)
ERHS 504	Occupational and Environmental Toxicology (2) (Spring, even years)
ERHS 541	Ergonomics in Product and Process Design (3) (Spring, odd years)
ERHS 547	Equipment & Instrumentation (3) (Fall)
ERHS 549	Environmental Health Risk Assessment (3) (Spring)
ERHS 550	Principles of Radiation Biology
ERHS 636	Industrial Hygiene Control Methods (3) (Spring, even years)
ERHS 656	Occupational Noise Control (3) (Fall, odd years)
ERHS 687 ⁶	Internship (PLAN B)
ERHS 693B	Research Seminar: Industrial Hygiene (PLAN B)
ERHS 726	Aerosols and Environmental Health (3) (Fall)
PSY 692	Spectrum of Professions Protecting and Promoting Worker Health (1) (Fall) (Listed under: Seminar: Industrial/Organization Psychology)
PSY 792	Advanced Seminar: Industrial/Organizational Psychology (Fall)