

KCTCS Catalog 2010-2011

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Health Physics

http://legacy.kctcs.edu/catalog//curric/index.cfm?action=s&cp_id=1149

The Health Physics program is designed to prepare students to conduct health physics activities in a variety of occupational and environmental settings. Students will study the basic properties of radiation including its origin, its interactions with matter, and radiation detection procedures. Rules and regulations governing human exposure to occupational radiation health hazards are covered. Emphasis is placed on the proper use of survey instrumentation to detect and measure occupational radiation health hazards, the equipment and techniques employed to conduct work-place and environmental surveys, and the current technologies used in hazard control. The Radiation Control Technician certificate prepares students for employment in a Department of Energy (DOE) facility. The AAS degree in Health Physics prepares the graduate for the National Registry of Radiation Protection Technologists examination and for employment at a nuclear facility.

Certificate

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Radiation Control Technician - 5122053019

HP 100 Health Physics Fundamentals.....	3
HP 101 Introduction to Health Physics I.....	3
HP 102 Introduction to Health Physics II.....	3
HP 201 Nuclear Instrumentation and Measurement I.....	4
HP 202 Nuclear Instrumentation and Measurement II.....	4
Total Credits.....	17

Associate in Applied Science

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Health Physics - 5122057019

PHY 152	Introductory Physics II OR higher level Physics course.....	3
CHE 140	Introductory General Chemistry.....	3
CHE 145	Introductory General Chemistry Laboratory.....	1
BIO 112	Introduction to Biology.....	3
BIO 113	Introduction to Biology Lab.....	1
MAT 150	College Algebra OR higher level Mathematics course.....	3
ENG 101	Writing I.....	3
ENG 102	Writing II.....	3
COM 181	Basic Public Speaking OR.....	3
COM 252	Introduction to Interpersonal Communication.....	-3
Computer Literacy*		0-3
Social Interaction.....		3
Heritage/Humanities/Foreign Language.....		3
HP 101	Introduction to Health Physics I.....	3
HP 102	Introduction to Health Physics II.....	3
HP 120	Introduction to Radiation Biology.....	3
HP 201	Nuclear Instrumentation and Measurement I.....	4
HP 202	Nuclear Instrumentation and Measurement II.....	4
ENVR 246	Environmental Law.....	2
ISX 100	Industrial Safety.....	3
QMS 101	Introduction to Quality Systems.....	3
INDT 250	Team Dynamics and Problem Solving.....	3
BA 287	Supervisory Management.....	3

Total Credits.....60-63

*** Computer literacy must be demonstrated either by competency exam or by completing a computer literacy course.**

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