



SCHOOL OF HEALTH, PHYSICAL
EDUCATION, AND RECREATION
INDIANA UNIVERSITY

Ergonomics

Master of Science in Kinesiology degree (38 cr.)
3.0 GPA required for graduation, Minimum C- in each course
Effective for students matriculating fall 2008
Department of Kinesiology – HPER 112 – (812) 855-5523

CORE COURSES (6 cr.)

	<u>Credit</u>	<u>Courses Selected</u>
HPER-K 598 Ergonomics	3	_____
HPER-K 599 Cognitive Ergonomics	3	_____

COGNATE AREA (6 cr.)

Select two courses from one sub discipline to form a cognate area. Course work in this area must be selected in consultation with the student's major professor.

Motor Control

HPER-K 541 Nature and Basis of Motor Skill	3	_____
HPER-K 542 Neuromuscular Control of Movement	3	_____
HPER-K 543 Cortical Control of Human Movement	3	_____
HPER-K 594 Human Error	3	_____

Biomechanics

HPER-K 530 Mechanical Analysis of Human Performance	3	_____
HPER-K 531 Measurement and Analysis of Physiological Signals-EMG	3	_____
HPER-K 532 Clinical Biomechanics – Gait	3	_____
HPER-K 630 Biomechanics of Human Performance	3	_____

Exercise Physiology

HPER-K 500 Physical Activity and Health	3	_____
HPER-K 500 Administration of Fitness Programs	3	_____
HPER-K 535 Physiological Basis of Human Performance	3	_____
HPER-K 560 Exercise in Corporate Fitness and Wellness	3	_____
HPER-K 562 Exercise Prescription in Health and Disease I	3	_____

Safety Management

HPER-S 510 Organization and Admin of Safety Management Programs	3	_____
HPER-S 552 Principles & Concepts of Workplace Safety Behavior	3	_____
HPER-S 617 Seminar in Safety Education: OSHA General Indus Stndrds	3	_____

RESEARCH COMPETENCY (9 cr.)

HPER-T 591 Interpretation of Data in Health, Kines, and Recreation OR		
HPER-K 597 Assessment in Ergonomics	3	_____
HPER-K 690 Seminar in Human Performance (Ergonomics)	3	_____
HPER-K 602 Independent Study and Research	3	_____

INTERNSHIP (8 cr.)

HPER-K 607 Internship in Ergonomics	8	_____
-------------------------------------	---	-------

ELECTIVES (9 cr.)

Select 9 credits from the following recommended electives or from the subdisciplines listed above to develop an individualized area of concentration. Course work in this area must be selected in consultation with the student's major professor.

HPER-K 524 Exercise in Physical Activity for People with Disabilities	3	_____
HPER-K 527 Adherence to Physical Activity	3	_____
HPER-K 537 Advanced physiology of Exercise	3	_____
HPER-K 589 Introduction to CAD in Ergonomics	3	_____
HPER-K 590 Advanced Technology in Ergonomic Analysis	3	_____
HPER-K 591 Participatory Ergonomics	3	_____

Elective choices continued on next page

HPER-K 592	Macro-Ergonomics: Socio-technological Systems Design	3	_____
HPER-K 593	Physical Ergonomics	3	_____
HPER-K 595	Work Design	3	_____
HPER-K 596	Industrial Design and Ergonomics	3	_____
HPER-C 510	Organization and Administration of Public Health Programs	3	_____
HPER-C 589	Models and Theories of Health Behavior	3	_____
HPER-H 617	Health, Technology and Aging	3	_____
COGS-Q 551	Brain and Cognition	3	_____
EDUC-R 620	Instructional Task Analysis	3	_____
EDUC-Y 604	Multivariate Analysis in Education Research	3	_____
FINA-U 604	Special Topics in Studio Art: Computer Modeling	3	_____
FINA-S 571	Graduate Sculpture [CAD]	3	_____
FINA-S 572	Graduate Sculpture [CAD Applications]	3	_____
INFO-I 543	Usability and Evaluation Methods of Interaction Design	3	_____
PSY-P 503	Complex Cognitive Processes	3	_____
PSY-P 504	Learning and Motivation	3	_____
PSY-P 517	Methods in Direct Observation of Behavior	3	_____
SLIS-L 503	User Needs and Behavior in Theory and Practice	3	_____
SLIS-L 540	Foundations of Information and Architecture	3	_____
SLIS-L 542	Introduction of Human Computer Interaction	3	_____
SLIS-L 578	User Interface Design of Information Systems	3	_____
STAT-S 681	Topics in Applied Statistics: Non Parametric Data	3	_____
TOTAL CREDIT HOUR FOR DEGREE		38	