Health and Human Development

Pre-Physical Therapy

Four-Year Plan 2006-2008 Catalog

Name _____ **Advisor** _____

E-mail _____ www.montana.edu/hhd/

Freshman Year						
Grade				**Term**	**Credits**	
BIOL	102	Molecular and Cell Biology		**F**s	4	_____
BIOL	207	Anatomy & Physiology		f**S**	5	_____
CHEM	131	General Chemistry I		**F**sm	4	_____
CHEM	132	General Chemistry II		f**S**m	4	_____
†MATH	170Q	Survey of Calculus		f**S**	4	_____
UC		University Core & Electives			9	_____
	Total				*30*	_____

Sophomore Year						
*				**Term**	**Credits**	**Grade**
BIOL	208	Anatomy & Physiology II		**F**	4	_____
HDFN	221CS	Human Nutrition		**F**S	3	_____
HDPE	222	Foundations of Exercise Science		**S**	3	_____
PSY	100IS	Intro to Psychology		**F**s	3	_____
STAT	216Q	Elementary Statistics		**F**sm	3	_____
STAT	217	Intermediate Statistical Concepts		f**S**m	3	_____
UC		University Core and Electives			3	_____
		Take one of the following sequences:				
PHYS	205	College Physics I		**F**sm	4	_____
PHYS	206	College Physics II		f**S**m	4	_____
		or				
PHYS	211	General and Mod Physics I		**F**s	4	_____
PHYS	212	General and Mod Physics II		f**S**	4	_____
	Total				*30*	_____

*Chemistry 215 is strongly recommended.

Junior Year						
				Term	**Credits**	**Grade**
HDPE	320*	Anatomical Kinesiology		F	4	_____
HDPE	323*	Biomechanics		S	4	_____
MB	301	General Microbiology		FS	5	_____
PSY	382	Abnormal Psychology		F	3	_____
UC		University Core and Approved Electives			14	_____
	Total				*30*	_____

Senior Year						
				Term	**Credits**	**Grade**
HDPE	322*	Exercise Physiology		**F**	4	_____
HDPE	475	Senior Seminar		**F**sm	1	_____
HHD	476	Internship		fsm	2-5	_____
UC		University Core and Approved Electives			14-21	_____
		Take one of the following:				
HDCF	371*	Research Methods		**S**	3	_____
HDPE	489	Undergraduate Research		fsm	2-6	_____
	Total				*30*	_____

Total needed for graduation . . . . . 120 . . . . . _____

† Please note this class has a math pre-req: Math 105 or Math Placement
* "C" grade or higher required to graduate

Check List For Graduation _____ Students Must Also Satisfy These Requirements

1. Minimum credits required to graduate (120) . . . _____
2. Approved upper division credits (≥ 300 level) . . _____
3. University Core completed . . . . . _____

Approved Upper Division HHD Electives ≥ 12
Approved Upper Division Science Electives ≥ 6

Classification	Course	#	Class Title	CR	Pre-Requisite(s) from MSU Catalog
Required	CHEM	131	General Chemistry 1	4	2 yr HS math with algebra
Required	CHEM	132	General Chemistry II	4	CHEM 131 or CHEM 141
Required	BIOL	207	Anatomy and Physiology I	5	CHEM 121/131 w/ ≥C- grade
Required	BIOL	208	Anatomy and Physiology II	4	BIOL 102, 207, 214 or MB 301 with ≥C- grade
Required	MATH	170	Survey of Calculus	3	MATH 105 or math placement test
Required	PHYS	205	College Physics I	4	MATH 160 or HS trigonometry
Required	PHYS	206	College Physics II	4	PHYS 205 or 211
Required	STAT	216	Elementary Statistics	3	MATH 105 or 151, or math placement test
Required	STAT	217	Intermediate Statistics	3	STAT 216
Required	HDPE	320	Anatomical Kinesiology	4	BIOL 207 + math core
Required	HDPE	322	Exercise Physiology	4	BIOL 207
Required	HDPE	323	Biomechanics	4	MATH 170, BIOL 207, PHYS 205, HDPE 320
Required	HDPE	465	Exercise Testing & Prescription	4	HDPE 322, BIOL 208, STAT 216
Required	HDPE	489	Undergraduate Research	2-6	Corequisite HDPE 490
Required	HDCF	371	Research Methods	3	STAT 216
Required	HHD	476	Internship	2-6	Corequisite HDPE 475
HHD Elective	HDCF	360	Human Devl: Adult and Aging	3	HDCF 260 or Soc Sci core for non-majors
HHD Elective	HDFN	321	Life Cycle Nutrition	3	HDFN 221
HHD Elective	HDFN	351	Nutrition and Society	3	HDFN 221 + HDCF 343
HHD Elective	HDFN	411	Nutrition for Sport & Exercise	2	HDFN 221 + HDPE 221
HHD Elective	HDFN	421	Macronutrient Metabolism	3	HDFN 221 + BCHM 340 + BIOL 208, all w/≥C
HHD Elective	HDFN	422	Micronutrient Metabolism	2	HDFN 421 w/ ≥ C grade
HHD Elective	HDFN	425	Medical Nutrition Therapy	4	HDFN 401 + HDFN 421, both w/ ≥C grade
HHD Elective	HDHL	402	First Aid Instructor Lab	1	(HDHL 221 + HDHL 222) or current ARC CPR
HHD Elective	HDHL	410	Human Response to Stress	3	PSY 100 + Junior standing
HHD Elective	HDHL	440	Principles of Epidemiology	3	STAT 216 + Research Methods course
HHD Elective	HDPE	415	Management in Health/Fitness	3	Junior Standing
HHD Elective	HDPE	425	Health Psychology	3	PSY 100
HHD Elective	HDPE	436	Principles of Strength & Cond.	3	HDPE 221
HHD Elective	HDPE	440	Health & Fitness Promotion	3	None listed
HHD Elective	HDPE	445	Applied Sport Psychology	3	HDPE 267
HHD Elective	HDCF	319	Theories & Skills Help Relation	3	Junior Standing
HHD Elective	HDCF	429	Sm Business Operation in HHD	3	HDCF 138
HHD Elective	HDFN	401	Nut Assessment & Counseling	2	HDCF 319 + HDFN 351+ PS 318
HHD Elective	HDHL	451	Health & Healing	3	PSY 100
Science Elec	BCHM	340	General Biochemistry	5	BIOL 207/208 + (CHEM 215 or CHEM 312)
Science Elec	BCHM	442	Matabolic Regulation	3	BCHM 340
Science Elec	BIOL	301	Principles of Genetics	3	BIOL 102 or MB 301
Science Elec	BIOL	310	Comparative Vertebrate Anat.	4	BIOL 101
Science Elec	BIOL	402	Advanced Cell & Mol Biology	3	BIOL 301 + BCHM 340
Science Elec	BIOL	410	Dissection Anat. Human Extrem	3	BIOL 207 + BIOL 208, both w/>C grades
Science Elec	BIOL	411	Animal Physiology	3	BIOL 102 + (CHEM 215 or CHEM 311 or
Science Elec	BIOL	413	Neurophysiology (spring)	3	BCHM122)
Science Elec	CHEM	311	Organic Chemistry I	4	BIOL 207 or BIOL 411
Science Elec	CHEM	312	Organic Chemistry II	4	CHEM 132 or CHEM 142
Science Elec	CHEM	323	Physical Chemistry I	3	CHEM 311
Science Elec	CHEM I	324	Physical Chemistry II	3	See MSU course catalog
Science Elec	& ME	313	Work Design and Analysis	3	CHEM 323
Science Elec	I & ME	413	Ergonomics and Safety I	3	COM 110 + ENGL 121
					I & ME 313

Graduate courses listed below maybe taken as upper division HHD electives, however, the following rules apply:

1. *Students must have senior status and GPA > 3.25 ; and*
2. *Graduate courses taken to fulfill undergraduate degree requirements may not be counted toward a graduate degree, i.e. students planning to pursue a Master of Science in HHD at MSU should be cautious about taking graduate courses.*

HDFN 511: Exercise Metabolism and Nutrition - 3 cr, S
HDPE 540: Mech Anal Human Mov. - 3 cr, F
HDPE 545: Graduate Ex Phys - 3 cr, F

7/28/06