DIET AND EXERCISE (AGLS)

Overview

Diet and Exercise, B.S./M.S.

Administered by the Department of Food Science and Human Nutrition and Department of Kinesiology.

This is an accelerated program with concurrent enrollment in the undergraduate and graduate degree programs. Courses included have been approved as meeting the academic requirements of the Didactic Program in Dietetics (DPD) in preparation for admission to accredited dietetics internship programs; the DPD is accredited by the Accreditation Council for Education in Nutrition and Dietetics, the accrediting agency of the Academy of Nutrition and Dietetics. There is a \$30 fee for the verification statement of completion of the accredited dietetics program. Additionally, courses are included to meet the American College of Sports Medicine (ACSM) requirements for certification at the level of Certified Exercise Physiologist.

Student Learning Outcomes

Upon graduation, students should be able to:

- Communicate effectively in their field of study using written, oral, visual and/or electronic forms.
- Demonstrate proficiency in ethical data collection and interpretation, literature review and citation, critical thinking and problem solving.
- · Facilitate and participate effectively in a group, team, or organization.
- Plan life-long learning activities with the aim of improving professional skills.
- Integrate creativity, innovation, or entrepreneurship in ways that produce value.
- Describe sociocultural competence relative to diversity, equity and/or inclusion.
- Explain how human activities impact the natural environment and how societies are affected.
- Meet program specific learning outcomes for the Diet & Exercise major.

Degree Requirements

Total Degree Requirements: 122 cr. for bachelor's degree and 34-38 cr. for master's degree

International Perspectives: 3 cr.

U.S. Diversity: 3 cr.

Students must fulfill International Perspectives and U.S. Diversity requirements by selecting coursework from approved lists. These courses may also be used to fulfill other area requirements.

Communications	s and Library: 10 cr.	
ENGL 150	Critical Thinking and Communication	3
ENGL 250	Written, Oral, Visual, and Electronic Composition	3
LIB 160	Introduction to College Level Research	1
SP CM 212	Fundamentals of Public Speaking	3
Total Credits		10
Social Sciences:	6 er.	
PSYCH 101	Introduction to Psychology	3
PSYCH 230	Developmental Psychology	3
Total Credits		6
Mathematical So	ciences: 6-8 cr	
Select at least 3 of		3-4
MATH 140	College Algebra	
MATH 143	Preparation for Calculus	
MATH 160	Survey of Calculus	
MATH 165	Calculus I	
Select at least 3 of	credits from:	3-4
STAT 101	Principles of Statistics	
STAT 104	Introduction to Statistics	
STAT 226	Introduction to Business Statistics I	
Total Credits		6-8
Physical Science	es: 13 cr.	
Select from:		5
CHEM 163	College Chemistry	
& 163L	and Laboratory in College Chemistry	
or CHEM 17	7General Chemistry I	
& 177L	and Laboratory in General Chemistry I	
CHEM 231	Elementary Organic Chemistry	3
CHEM 231L	Laboratory in Elementary Organic Chemistry	1
PHYS 115	Physics for the Life Sciences	4
or PHYS 131	General Physics I	
Total Credits		13

Biological Sciences: 16 cr.

Diet and Exercise undergraduate courses to be completed or in progress when applying for admission to the program: 20-22 cr.

Total Credits		20-22
KIN 258	Principles of Physical Fitness and Conditioning	2
H S 110	Personal and Consumer Health	3
	Metabolism in Health and Disease	
FS HN 360	Advanced Nutrition and the Regulation of	3
FS HN 340	Foundations of Dietetic Practice	1
FS HN 265	Nutrition for Active and Healthy Lifestyles	3
or FS HN 115	Food Preparation Laboratory	
FS HN 215	Advanced Food Preparation Laboratory	1-2
FS HN 214	Scientific Study of Food	3
FS HN 167	Introductory Human Nutrition and Health	3
	Kinesiology and Health	
& KIN 253	and Orientation and Learning Community in	
or KIN 252	Introduction to the Discipline of Kinesiology	
FS HN 110	Professional and Educational Preparation	
Select from:		1-2

Acceptance into the BS/MS PROGRAM is required BEFORE spring semester of the THIRD year.

Humanities and Ethics: 6-9 cr.

requirements.

Select 6 credits from approved Humanities list	6
Select 3 credits from approved Ethics list	3
Note: If ethics course is on the humanities list, it can meet both	

Diet and Exercise remaining undergraduate courses to complete the bachelor's degree requirements: 42 cr.

H S 380	Worksite Health Promotion	3
A TR 220	Basic Athletic Training	2
or H S 305	Instructor's First Aid and Cardiopulmonary	
	Resuscitation	
KIN 259	Leadership Techniques for Fitness Programs	3
KIN 358	Exercise Physiology	3
Select from:		3
KIN 355	Biomechanics	
KIN 360	Sociology of Physical Activity and Health	
KIN 366	Exercise Psychology	
KIN 372	Motor Control and Learning Across the Lifespan	
KIN 458	Principles of Fitness Assessment and Exercise	
	Prescription	
KIN 462	Medical Aspects of Exercise	
FS HN 361	Nutrition and Health Assessment	2
FS HN 367	Medical Terminology for Health Professionals	1
FS HN 411	Food Ingredient Interactions and Formulations	2

Total Credits		42
NUTRS 564	Medical Nutrition and Disease II *	3
NUTRS 563	Community Nutrition and Health *	3
HSP M 392	Foodservice Systems Management II	3
HSP M 391	Foodservice Systems Management I	3
HSP M 380L	Food Production Management Experience	3
HSP M 380	Food Production Management	3
FS HN 466	Nutrition Counseling and Education Methods	3
FS HN 430	U.S. Health Systems and Policy	2

Diet and Exercise graduate courses to complete the master's degree requirements: 34-38 cr.

FS HN 581	Seminar **	1	
FS HN 590C	Special Topics: Teaching **	1	
FS HN 681	Seminar **	1	
FS HN 682	Seminar Reflection **	R	
NUTRS 501	Biochemical and Physiological Basis of Nutrition:	4	
	Macronutrients and Micronutrients		
NUTRS 561	Medical Nutrition and Disease I	4	
NUTRS 563	Community Nutrition and Health *	3	
NUTRS 564	Medical Nutrition and Disease II *	3	
KIN 501	Research Methods in Physical Activity	3	
KIN 505	Research Laboratory Techniques in Exercise	2	
	Physiology		
KIN 550	Advanced Physiology of Exercise I	3	
or KIN 551	Advanced Physiology of Exercise II		
STAT 587	Statistical Methods for Research Workers	4	
Select 3-6 additional credits (FSHN students select 3 credits, KIN			
students select 6	credits) from:		
I/INI E1 1	Dissert of Assistant Observation for Woodle		

KIN 511	Physical Activity Strategies for Youth
KIN 550	Advanced Physiology of Exercise I
KIN 551	Advanced Physiology of Exercise II
KIN 567	Exercise and Health: Behavior Change
KIN 570	Physical Activity Assessment for Health Related
	Research

Select 2-3 credits for creative component or 6 credits for thesis 2-6 research:

FS HN 599	Creative Component
KIN 599	Creative Component
KIN 699	Research
NUTRS 699	Research in Nutritional Sciences

- * Course counts toward both bachelor's and master's degrees.
- ** Requirement for students in the FS HN Department.

Go to FS HN courses. (http://catalog.iastate.edu/previouscatalogs/2022-2023/azcourses/fs_hn/)

Go to KIN courses. (http://catalog.iastate.edu/previouscatalogs/2022-2023/azcourses/kin/)

Diet and Exercise, B.S./M.S.

First Year

Second Year

Fall	Credits	Spring	Credits		
FS HN 110		1-2 FS HN 16	7	3	
or KIN 252					
and KIN					
253					
CHEM 163		4 BIOL 212		3	
or 177					
CHEM 163L	-	1 H S 110		3	
or 177L					
ENGL 150		3 PSYCH 23	30	3	
PSYCH 101		3 Humaniti	es/	3	
		Ethics			
		course			
LIB 160		1			
MATH 140,		3-4			
143, 160, or					
165					
	16	5-18		15	

Fall	Credits	Spring	Credits	
CHEM 231		3 FS HN 265		3
CHEM 231	L	1 BBMB 301		3
BIOL 255		3 BIOL 256		3
BIOL 255L		1 BIOL 256L		1
ENGL 250		3 FS HN 214		3
MICRO 20	1	2 FS HN 115	1	-2
		or 215		
SP CM 212	2	3		

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Third Year

Fall	Credits	Spring	Credits	Summer	Credits	
FS HN 340	1	Acceptance	e	KIN 599,		1-3
		into the		FS HN 599,		
		program		KIN 699, or		
		required		NUTRS 699	1	
		before				
		spring of				
		the third				
		year				
FS HN 360	3	8 FS HN 361		2 STAT 587		4
KIN 258	2	2 FS HN 367		1		
PHYS 115	4	H S 380		3		
or 131						
STAT 101,	3-4	HSP M 380		3		
104, or 226						
A TR 220 o	r 2	2 HSP M 380	L	3		
H S 305						
Apply for		KIN 259		3		
admission						
to the						
BS/MS						
program by	,					
Oct. 1						
		KIN 358		3		
	15-16		-	18		5-7

Ear	urth	Year	

Fall	Credits	Spring	Credits	Summer	Credits	
KIN 505		2 KIN 462		3 KIN 599, FS HN 599, KIN 699, or FS HN 699		1-3
KIN 511 (offered odd years), 550, 567, or 570		3 KIN 501		3		
NUTRS 561		4 KIN 551		3		
NUTRS 563 (Time conflict with NUTRS 501 next fall)		3 NUTRS 564		3		

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FS HN 682 (FS HN Dept)		R FS HN 430		2		
		FS HN 581 (FS HN Dept)		1		
		FS HN 682 (FS HN Dept)		R		
		12		15	1-	-3
Fifth Year						
Fall	Credits	Spring	Credits			
FS HN 411		2 FS HN 466		3		
KIN 355,		3 FS HN 5900	С	1		
360, 366,		(FS HN				
372, or 458		Dept)				
KIN 511, 550, 567, or 570 (KIN Dept)		3 HSP M 392		3		
NUTRS 501		4 KIN 699, NUTRS 699, KIN 599, or FS HN 599		2		
FS HN 682		R FS HN 681		1		
(FS HN		(FS HN				
Dept)		Dept)				
HSP M 391		3 Humanities Internation Perspective	al	3		

Planned course offerings may change, and students need to check the online Schedule of Classes each term to confirm course offerings: http://classes.iastate.edu/. This sequence is only an example.

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