

## M.S. in Clinical Exercise Physiology (Thesis)

Course Title	Thesis Option	
	Course Description	Credit Hours
	Minimum Total	37
KINE 601	Reading in Research Publication sin Kinesiology	3
KINE 626	Exercise for Clinical Populations	3
KINE 637	Exercise Physiology I	3
KINE 638	Exercise Physiology II	3
KINE 639	Exercise Electrocardiography	3
KINE 648	Instrumentation and Techniques in Exercise Physiology II	2
KINE 681	Seminar	2
KINE 683	Practicum in Exercise Evaluation and Prescription	3
KINE 685	Directed Studies: Research Problems in Applied Exercise Physiology	3
KINE 689	Sp Tp in Nutrition for Sport and Exercise	3
KINE 690**	Theory of Kinesiology Research (Statistics)	3
KINE 691	Research	6

\* Professional internship can be chosen by Thesis student as elective, but cannot count toward degree.

\*\* May substitute STAT 651 (Statistics in Research) for KINE 690S (Theory of Kinesiology Research; Statistics).

### Advisor Directed Electives

Students will select electives for both the Thesis and Non-Thesis degrees with approval from their advisors

Course Title	Course Description	Credit Hours
BICH 601	Fund Biochemistry I	3
BICH 602	Fund Biochemistry II	3
HLTH 640	Health Intervention and Wellness	3
KINE 606	Psychological Aspects of Sport and Physical Activity	3
KINE 627	Analysis of Movement	3
KINE 640	Motor Skill Learning and Performance	3
KINE 641	Motor Development	3
KINE 650	Microcomputer Utilization in Sports Statistics	3
KINE 685	Directed Studies: Research Problem	3
KINE 689S	Sp Tp in Physiology of Strength Training and Conditioning	3
MGMT	Elective	3
MKTG	Elective	3
NUTR 613	Protein Metabolism	3
NUTR 618	Lipids and Lipid Metabolism	3
PLAN 630	Survey of Health Planning Processes	3
PLAN 631	Planning and Programming Health Systems	3
PLAN 633	Planning for Healthy Communities	3
STAT 652	Statistics in Research II	3

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<b>Course Title</b>	<b>Course Description</b>	<b>Credit Hours</b>
VTPP 605	Systemic Veterinary Physiology II	5
VTPP 606	Systemic Veterinary Physiology II	5

### Demonstrated Undergraduate Competencies

Please refer to the Texas A&M University Undergraduate Catalog for the content of the courses listed below. Competency in the content of the course is required rather than the specific course. The Office of Graduate Studies in the Department of Health and Kinesiology in consultation with the graduate committee chair or temporary advisor will be happy to review transcripts of potential graduate students.

<b>Course Title</b>	<b>Course Description</b>
CHEM 101 & 102	Fundamentals of Chemistry
CHEM 227	Organic Chemistry
KINE 240	Computer Technology in Health and Kinesiology
KINE 426	Analysis of Movement
KINE 433	Physiology of Exercise
MATH 131	Calculus
PHYS 201 & 202	College Physics
ZOOL 319 or VAPH 305	Human Anatomy and Physiology
ZOOL 320 or VTPP 423	Human Anatomy and Physiology