

# Doctor of Philosophy - Interdisciplinary Health Sciences

## Plan Description

This **IHS** Ph. D. ~~in IHS~~ will provide students from different disciplines an opportunity to learn how to approach complex healthcare problems by using the expertise from their own as well as other disciplines. This goal will be achieved through completion of a common core of courses identified to provide a strong research foundation along with the ability to communicate this research to a broad audience of healthcare scientists and professionals. These core courses will be the foundation of the Ph. D.; however, students will be able to individualize their program of study with appropriate specialized coursework as well as independent research experiences. Strengths of the faculty in IHS focus around the following: 1) Biomechanics, 2) Exercise Physiology and Nutrition Sciences, 3) Health Physics, 4) Motor Control/Learning, and 5) Rehabilitation Sciences. For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.

## Admission Requirements

Application deadlines Applications available on the UNLV Graduate College website. Students will be admitted into the program by the ~~program director and the~~ **IHS Admissions Executive Governing Committee. Review of applicants for admission by this committee will occur after screening by the student's mentor. Note the mentor is to be identified prior to program admission.** The minimum requirements of the Ph. D. in IHS are: **1. GPA requirements:-Undergraduates:** An overall ~~undergraduate/graduate~~ **undergraduate GPA of 3.25 or higher- Graduates: An overall graduate** GPA of 3.25 or ~~higher~~ **Greater higher** **2. Greater than the** 50th average percentile **or above** on the quantitative, verbal, and analytic portions of the GRE (taken within the last **5 years**) ~~Three years~~ **3 years**) **is preferred. 3. Three** letters of ~~recommendation~~ **Interview with two core faculty members** **A recommendation. One letter must be solicited by the applicant from their proposed mentor. 4. Kira interview 5. A curriculum vitae** ~~A vitae~~ **6. A personal statement** **7. If** the applicant is from a country where English is not an ~~official~~ **official** language, then the applicant must demonstrate English ~~proficiency~~ **proficiency** by ~~scoring 80 or higher on the Test of English as a Foreign Language, by scoring 7.0 or higher on the International Inter-national English Language Testing System, by earning a combined score of greater than the 70th 80th percentile on following~~ the ~~GRE-verbal and quantitative exam, or by earning a baccalaureate or higher at a regionally accredited institution~~ **requirements** **requirements** in the ~~U. S. or in a university where~~ **UNLV English is the language of instruction** **Proficiency page (add link).** ~~The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.~~ **Admission Requirements—Biomechanics, Exercise Physiology and Nutrition Sciences, and Motor Control/Learning Focus** **Graduated with a Master's degree Applicants must have graduated graduated** from a regionally accredited institution **or equivalent** in ~~the a related field of kinesiology/exercise science (e. g., biology, chemistry engineering, computer exercise science, engineering, psychology or other related field.~~ **Admission Requirements-Rehabilitation Sciences Focus** **Have graduated from an accredited rehabilitation clinical sciences profession (e. g. health physics, physical therapy, occupational therapy, speech therapy psychology, athletic training) occupational therapy)** at ~~either~~ the ~~master's~~ **Master's** or first-professional clinical doctoral level. ~~If the applicant has a professional Bachelor's degree only, then 30 additional credits of degree-consistent, graduate-level coursework (determined by the sub-plan committee) will be required.~~ **Admission Requirements-Health Physics Focus** **Graduated with a Master's degree from a regionally accredited institution in the field of health physics,**

~~physics, chemistry, engineering or other related field.~~ Applicants with Bachelor degrees may be admitted to the program but are required to take an additional 30 credits of elective, ~~degree-consistent, graduate level degree-appropriate~~ coursework ~~(determined by the Health Physics Graduate Committee)~~. All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements. Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines ~~and a nd and~~ sub-plans within the described programs are subject to change at any time.

## Plan Requirements

~~Total Credits Required~~ See Subplan Requirements below. **Subplan 1 Requirements: Post-Bachelor's Track**  
**Subplan 2 Requirements: ~~60~~ Post-Master's Track**

### ~~New Core Subplan 2~~ **1 Requirements: Post-Master's Post-Bachelor's Track**

**Total Credits Required: 90**

## ~~New Core~~ **Course Requirements**

### Interdisciplinary Research Core Courses – ~~Credits: 15~~ **Credits 16 15**

~~(implementation note~~ Complete 12 credits by completing HSC ~~702~~ 703, 704, ~~705~~ 706, 710 (HSC 710 must be taken 3 times). In addition, complete 3 credits by choosing either: ~~how do credits add up?)~~ HSC 700, ~~703~~ 702, or ~~706~~ 705.

~~{Before}~~

[After] In addition, students must complete one of the following courses:

~~{After}~~ **OR AND**

~~{After}~~

### ~~Seminar~~ Elective Courses – ~~30~~ **Credits: 60 Credits**

Complete ~~30~~ **60** credits of advisor approved graduate-level courses: Minimum of 6 credits of graduate level interdisciplinary courses outside of the student's primary focus area  
Minimum of 9 credits of 700-level content/focus area courses  
Up to 15 credits of **HSC 787 and HSC 788.**

~~{After}~~ **HSC-790 — Guided Research**

## Research Dissertation Experience – ~~Credits: 15~~ Credits 12

~~(implementation note: how many for prospectus? how many for dissertation?)~~

## ~~New Core Degree and Graduation and~~

Please see degree and graduation requirements below.

## ~~Graduation Requirements~~

~~Please see graduation requirements below.~~

## ~~New Core Dissertation Prospectus-Credits: 3~~

## ~~New Core Subplan 2 Requirements: Post-Master's Track~~

Total Credits Required: 60

## ~~New Core Course Requirements~~

## ~~New Interdisciplinary Research Core Courses – Credits: 15~~

~~(implementation note Complete 12 credits by completing HSC-702 703, 704,-705 706, 710 (HSC 710 must be taken 3 times). In addition, complete 3 credits by choosing either: how do credits add up?) HSC 700,-703 702, or 706 705.~~

HSC 703 Interdisciplinary Grant Writing for Health Sciences	3
HSC 704 Selected Applications in Statistics 2	3
HSC 706 Health Science Writing and Communication	3
HSC 710 Seminar	1
[After] <b>AND</b> In addition, students must complete one of the following courses:	
HSC 700 Selected Application of Statistical Techniques I	3
HSC 702 Translational Research Design	3

**HSC 705 Clinical Trial Design And Analysis** **3**

**New Core Elective Courses – Credits: 30**

Complete 30 credits of advisor approved graduate-level courses: Minimum of 6 credits of graduate level interdisciplinary courses outside of the student’s primary focus area. Minimum of 9 credits of 700-level content/focus area coursesUp to 15 credits of HSC 787 and HSC 788.

HSC 788 Independent Study in Interdisciplinary Health Sciences	1 - 9
HSC 787 Special Problems in Interdisciplinary Health Sciences	1 - 6
<del>{After} HSC 790 – Guided Research</del>	

**New Core Research Dissertation Experience – Credits: ~~15~~ 12**

~~(implementation note: how many for prospectus? how many for dissertation?)~~

<del>HSC 789 Dissertation Prospectus</del>	<del>3</del>
HSC 799 Doctoral Dissertation	1-12

**New Core Degree and Graduation Requirements**

Please see degree and graduation requirements below.

**Graduation Requirements**

Please see graduation requirements below.

**New Core Dissertation Prospectus-Credits: 3**

**Degree Requirements**

1. Students must complete 30 credits in the interdisciplinary health sciences core (15 of which are ~~dissertation-related credits~~ **dissertation-related credits**) and must complete **60 elective credits (BS-prepared students) or 30 elective credits (MS-prepared students)** as ~~defined~~ **defined** above. **The A minimum of 90-credit total in hours credits is required for graduation from the IHS PhD program-is-60 (60 credits for students admitted with a masters degree).**
2. Students must complete the degree with a cumulative GPA ≥3. 0 and graduation must occur **preferably** within 6 years for students enrolling with ~~master's~~ **master's** degrees and 8 years for students enrolling with ~~bachelor's~~ **bachelor's** degrees. ~~Grades below~~ **3. Students must obtain a B (not B-) will not be acceptable or better in all core coursework and maintain an overall grade point average of 3.**

**If the 0 across all coursework with no single course grade dropping below a C. A grade was received below B in a core class is unacceptable and, then as such,** the student must retake the class. If a core class was is not satisfactorily passed on two attempts, the student will be **dismissed** ~~dismissed~~ **dismissed from dismissed from** the program. If the grade **was is** in an elective class, then the class can be retaken or replaced with another elective class. **4.** Students will complete a comprehensive examination which will consist of a ~~thorough literature review, an interdisciplinary grant application, written and a comprehensive an oral defense examination as outlined in the program handbook.~~ If a student fails ~~any portion of~~ the comprehensive examination ~~(literature review, grant, oral) they will be able to at least four weeks (but no more than eight weeks) must pass before scheduling a~~ retake ~~it again after a minimum of three months the exam.~~ If ~~they fail the student fails~~ a second time, they will be separated from the program. **5.** Students will also be required to complete a prospectus prior to dissertation in a focused research area. The ~~dissertation committee~~ **dissertation committee** will have an interdisciplinary element in that the Chair and two of the committee members will be faculty with Interdisciplinary Health Sciences Graduate Faculty status. The fourth committee **member** must be from outside the IHS Graduate Faculty and serves as the Graduate College Representative. Additional committee members may be added as appropriate. **6.** Students will ~~complete complete complete~~ at least one national/international presentation as a platform or a poster from research generated during their Ph. D. program **or present research generated during PhD program in HSC 710 (Interdisciplinary Seminar) or other approved venue to faculty and students.**

## Plan Graduation Requirements

**1.** The student must submit all required forms to the Graduate College ~~and then as well as~~ apply for graduation up to two semesters prior to completing ~~his/her their~~ degree requirements for the Doctoral portions of the program. **2.** The student must adhere to the following dissertation requirements: **3.** Dissertation ~~Format In Format: In~~ consultation with their advisor, the student has two options for the structure and associated content of the dissertation. These will be termed ~~"traditional"~~ **"traditional"** and ~~"multiple-projects"~~ **"multiple-projects"**. All dissertations will include a title page, acknowledgements, table of contents, references, and appendices as appropriate. Minimum content and suggested structure for the ~~specific specific~~ categories of dissertations are outlined below. **3. 1.** Traditional ~~Dissertation This Dissertation: This~~ form of the dissertation is organized around one particular experiment. ~~Specifically Specifically~~ this should be an in-depth examination of a ~~specific specific~~ question/topic involving a single, comprehensive experiment. The structure of this document ~~will will will~~ consist of a minimum of an ~~abstr-act abstract~~, bibliography and ~~five five~~ chapters to include: ~~Introduction (background, statement of the problem(s), purpose of the study, hypotheses, limitations, delimitations) Review delimitations) Review of the Literature Methods Results Discussion/Conclusion/Recommendations Literature Methods- Results- Discussion/Conclusion/Recommendations~~ Optional appendices, ~~figures figures~~, and tables are also to be included. The oral defense will be that of this single research experiment. **3. 2.** Multiple-Projects ~~Dissertation The Dissertation: The dissertation must align with the graduate college guidelines for alternative dissertations. The~~ form of the dissertation may be either 1) a linear progression of at least three topically developing research deliverables, or 2) a series of a minimum of three experiments designed around a theme or topical area of inquiry. The exact structure of the document may vary based upon choice of linear or circular design. It is imperative that each experiment is of adequate ~~scientific scientific~~ merit to stand on its own as ~~an independent an independent~~ publication. ~~Packaging Pa-ckaging Packaging~~ of the multiple-projects dissertation should include: ~~Introduction (background, statement statement-ent statement-ent statement statement~~ of the problem(s), hypotheses, limitations, delimitations) Experiment 1: Written in the format required by the target journal, which is typically Introduction, ~~Methods, Results and and- Discussion/Summary/Conclusions.~~ Experiment 2: Written in the format required by the target journal which is typically Introduction, Methods, Results and

**Discussion/Summary/Conclusions****Experiment Discussion/Summary/Conclusions-Experiment** 3: Written in the format required by the target journal which is typically Introduction, Methods, Results and **Discussion/Summary/Conclusions** • Each **"Experimental Section"** **Discussion/Summary/Conclusions** Each **"Experimental Section"** should be preceded with an introduction to the project and/or bridge section that leads from one experiment to the next. Summary/Future Directions This example suggests three experiments; however **additional experiments** **additional experiments** may be proposed and completed. The number of projects to be completed will be proposed by the student with **final final** approval **given give n** from the doctoral advisor and **dissertation committee dissertation committee**. Optional appendices, **figures figures** and tables **are a-re are** also to be included. The oral defense will include the entire **docum-ent document**, inclusive of all experiments conducted. -Outcomes include: Pass: student is recommended to the Graduate College for granting of the Ph. D. degree Fail: student advised of status and that the oral defense will be repeated to provide an opportunity to correct errors, clarify nebulous areas and/or expand on **superficial superficial** presentation of information or data. At least four weeks (but no more than 8 weeks) must pass before scheduling a re-take of the oral defense. If a student fails the oral defense a second time, they will be separated from the program. The student must submit and successfully defend **his/her their** dissertation by the posted deadline. The defense must be advertised and is open to the public. The student must submit **his/her their** approved, properly formatted dissertation to the Graduate College, and submit the approved electronic **version v-ersion version** to ProQuest by the posted deadline.