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## Educational Policies Committee Program Proposal, Emma Eccles Jones College of Education and Human Services, September 13, 2013 – Specialization in Pathokinesiology

Utah State University

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### Cover/Signature Page - Abbreviated Template

**Institution Submitting Request:** Utah State University

**Proposed Title:** Specialization in Pathokinesiology

**Currently Approved Title:** NA

**School or Division or Location:** Emma Eccles Jones College of Education & Human Services

**Department(s) or Area(s) Location:** Health, Physical Education & Recreation

**Recommended Classification of Instructional Programs (CIP) Code<sup>1</sup> (for new programs):** 51.2314

**Current Classification of Instructional Programs (CIP) Code (for existing programs):** NA

**Proposed Beginning Date (for new programs):** 07/01/2013

**Institutional Board of Trustees' Approval Date:** 06/21/2013

**Proposal Type (check all that apply):**

<b>R401-5</b>		<b>R401-6</b>	
<i>Items submitted will be reviewed by OCHE. If there are any issues, the proposal will be returned for clarification/correction. If no issues, the proposal will be returned with a note of approval and the request will be placed on the General Consent Calendar of the next Regents' agenda.</i>		<i>Items submitted will be reviewed by OCHE. If there are any issues, the proposal will be returned for clarification/correction. If no issues, the proposal will be returned with a note of approval and the request will be placed on the General Consent Calendar of the next Regents' agenda.</i>	
Section #	Item	Section #	Item
4.1.5.2	<input type="checkbox"/> Minor*	6.1.1	<input type="checkbox"/> Reinstatement of Previously Suspended Program
5.1.1.1	<input checked="" type="checkbox"/> New Emphasis on an Existing Degree*	6.1.5	<input type="checkbox"/> Reinstatement of Previously Suspended Unit
5.1.2	<input type="checkbox"/> Certificate of Proficiency Not Eligible for Financial Aid		
5.1.3	<input type="checkbox"/> Out-of-Service Area Delivery of Programs		
5.1.4	<input type="checkbox"/> Name Change of Existing Programs		
5.1.5	<input type="checkbox"/> Program Transfer		
	<input type="checkbox"/> Program Restructure		
	<input type="checkbox"/> Program Consolidation		
5.1.6	<input type="checkbox"/> Program Discontinuation		
	<input type="checkbox"/> Program Suspension		
5.1.7	<input type="checkbox"/> Administrative Unit Creation		
	<input type="checkbox"/> Administrative Unit Transfer		
	<input type="checkbox"/> Administrative Unit Consolidation		
5.1.8	<input type="checkbox"/> New Center		
	<input type="checkbox"/> New Institute		
	<input type="checkbox"/> New Bureau		
5.1.9	<input type="checkbox"/> Graduate Certificate		

\*Requires "Section VI: Program Curriculum" of Abbreviated Template

**Chief Academic Officer (or Designee) Signature:**

I certify that all required institutional approvals have been obtained prior to submitting this request to the Office of the Commissioner.

**Signature:** Dr. Laurens H. Smith, Jr. **Date:** 06/21/13

<sup>1</sup> CIP codes must be recommended by the submitting institution. For CIP code classifications, please see <http://nces.ed.gov/ipeds/cipcode/Default.aspx?y=55>.

**Utah State University**  
**Proposal to Offer a New Specialization in Pathokinesiology**  
**Within the PhD Program in Disability Disciplines**

**Section I: Request**

The Department of Health, Physical Education and Recreation (HPER) requests to add a Specialization titled "Pathokinesiology" to the Emma Eccles Jones College of Education and Human Services Interdisciplinary PhD in Disabilities Disciplines. This specialization will not only serve students requesting a specialization in Pathokinesiology but will allow faculty in HPER to contribute to the training of doctoral students in the existing Disabilities Disciplines PhD program.

**Section II: Need**

The PhD program in Disabilities Disciplines currently includes specializations in special education, behavior analysis, rehabilitation counseling, speech-language pathology, and disabilities studies. The proposed specialization in Pathokinesiology will focus on the scientific study of human movement (kinesiology) as it relates to any abnormal condition (patho) affecting movement and postural dysfunctions. The proposed specialization in Pathokinesiology is an important part of disability studies and is currently absent from the existing PhD program in Disabilities Disciplines. The inclusion of the Pathokinesiology specialization will fill the void by providing studies of individuals who have movement and postural dysfunctions, which is the unique contribution that HPER makes to this current PhD program. Recent inquiries inquiring into doctoral studies in Pathokinesiology have come from professionals such as physical therapists, podiatrists, and exercise specialists.

It is important to note the proposed specialization in Pathokinesiology will be added to the existing PhD program in Disabilities Disciplines and will combine with the existing specializations to expand the interdisciplinary approach of the PhD program. This training model is aligned with recommendations from the National Institute of Health (NIH) Biomedical Research Group which recently stated that, interdisciplinary training is important to prepare individuals for "careers that involve translational research and development," and to promote diversity of trainees and the biomedical workforce. Specifically, the NIH biomedical research group believes the greatest potential for scientific advances lie in broader, interdisciplinary research efforts.

The HPER department does not currently offer a PhD degree. As such, we have had many requests from existing MS students in HPER department and from health care professionals, in for example Physical Therapy, to offer a PhD degree that focuses on Pathokinesiology. There are PhD programs in kinesiology (or movement science) offered at other institutions; however, the proposed Pathokinesiology specialization is unique in its interdisciplinary focus in disabilities and its focus on the principles of kinesiology in the context of disability. Graduates of this specialization will be better trained than their peers at other institutions that do include the interdisciplinary focus. For example, graduates of our specialization in Pathokinesiology will understand issues of movement or postural dysfunction after stroke in the context of how the disability and specific movement abilities may affect life participation, occupation, mood, and caregiver well-being.

Other advantages to adding a specialization in Pathokinesiology to the existing PhD program in Disabilities Disciplines are that it will increase the capacity for research, training, service, and grant development in the

HPER Department. Additionally, the new specialization will support the University's effort to strengthen and increase graduate programs in general and doctoral training in particular.

**Similarity of program with those already in the state:** The Department of Physical Therapy at the University of Utah offers a PhD in Rehabilitation Science. This program attracts individuals who have earned a "master's or clinical degree in an area related to health sciences (e.g., DPT, MD, etc)". The University of Utah PhD in Rehabilitation Science is not like the proposed PhD in Pathokinesiology. The Pathokinesiology specialization at USU is distinct because of its interdisciplinary nature and its focus on the principles of kinesiology in the context of psychological and physical disability. The University of Utah, through the Department of Exercise and Sport Sciences also offers a PhD in Exercise Physiology. The focus for this degree does not align with any disability discipline curriculum and focus and is therefore distinctly different from the proposed Pathokinesiology specialization.

Brigham Young University offers a PhD in Exercise Science with a Physical Medicine and Rehabilitation Specialization within the Department of Exercise Sciences. Similar to the University of Utah Rehabilitation Science degree, this program is not aligned with any disability discipline curriculum and focus and is therefore distinctly different from the proposed Pathokinesiology specialization. It is important to echo the need for the interdisciplinary focus offered in the Pathokinesiology specialization will help satisfy the NIH position stand described in the "need" section of this proposal

### **Section III: Institutional Impact**

No impact on existing programs is expected. The increase in advising load by faculty in the HPER department is offset by two new faculty hires in HPER who have expertise in Pathokinesiology.

The faculty who will be assigned to teach and mentor doctoral students in this specialization presently work within HPER. To accommodate teaching loads, the present MS Health and Human Movement degree has several courses where teaching modules will be created in order to diversify course topics without expanding teaching loads. This will allow faculty to teach courses that serve both the MS and the PhD specialization students. Consequently, each faculty member will have capacity for mentoring PhD students without creating an overload for advising graduate students.

The proposed specialization will be added to the existing administrative structure of the PhD program in Disability Disciplines. Faculty in the HPER department will represent the specialization on the program's coordinating committee. Otherwise there are no anticipated changes in administrative structure.

**Faculty staff impact:** No changes in existing faculty and staff are required. As noted above, the HPER department recently hired two new faculty members who will expand the overall capacity to advise graduate students in the proposed specialization in Pathokinesiology.

**New facility requirements:** No facilities beyond those existing will be required. The HPER building (1000 square feet) has recently been modified to form two new state of the art research facilities for conducting movement science and Pathokinesiology studies. These new facilities will add to the existing three laboratories (~4500 square feet) to support research efforts of faculty and doctoral students for the Pathokinesiology specialization. One of the existing laboratories is the North End Rehabilitation Complex. This nationally recognized laboratory includes the 11,000-square-foot Dale Mildenberger Sports Medicine Complex and the Dr. John Worley Sports Medicine Research Center. Faculty and students from HPER

collaborate with USU Sports Medicine staff on research projects related to exercise evaluation, training and rehabilitation. The facilities noted above contain state of the art research equipment such as two Hydroworx water treadmill systems, a metabolic cart, motion analysis systems, and a computerized dynamic posturography system.

#### Section IV: Finances

Regarding finances, the proposed specialization will use the administrative secretarial support that is already in place for the Disabilities Discipline PhD. This will insure cohesion within the PhD disciplines and will not require new finances. We anticipate minimal impact given that we initially intend to restrict the total number of students in the program to 6.

#### Section V: Program Curriculum

**\*\*\*THIS SECTION OF THE ABBREVIATED TEMPLATE REQUIRED FOR EMPHASES AND MINORS ONLY.\*\*\***

#### All Program Courses

Course Prefix & Number	Title	Credit Hours
Existing PhD Core Courses		
EDUC 6570	Introduction to Educational and Psychological Research	3
EDUC 6600	Measurement, Design, & Analysis	3
SPED 7920	Doctoral Orientation Seminar	2
SPED 7940	Journal Reading Group	2
SPED 7400	Multicultural Issues in Disability	3
SPED 7820	Cross-Specialization Topical Seminars	6
	Subtotal	<b>19</b>
Professional Products and Experiences		
PEP 7040	Review of Literature	1
PEP 7060	Research Internship	2
PEP 7080	Publication	2
PEP 7090	Conference Presentation	1
PEP 7070	Grant Writing	1
PEP 7340	College Teaching Internship	1
PEP 7330	Supervision Internship	1
	Subtotal	<b>9</b>
Program Specialization Courses		
PEP 7XXX	Special Topics in Pathokinesiology	3
PEP 6XXX/7XXX	Neural Basis of Motor Function and Dysfunction I	2
PEP 7XXX	Neural Basis of Motor Function and Dysfunction II	2

Course Prefix & Number	Title	Credit Hours
PEP 7XXX	Fundamentals of Motor Behavior	2
PEP 6XXX/7XXX	Topics in Biomechanics	2
PEP 6XXX/7XXX	Motor Development	2
	Subtotal	<b>13</b>
PEP 7970	Dissertation	<b>12</b>
Elective Courses (see attached list)	Select from attached list- advisor approval: <u>Must include an advanced research design and or statistics course</u>	
	Sub-Total	<b>6</b>
	<b>Total</b>	<b>59</b>

### New Courses to Be Added in the Next Five Years

Year 1	Course Prefix and Number	Course Title
	PEP 7XXX	Special Topics in Pathokinesiology
	PEP 6XXX/7XXX	Topics in Biomechanics
	PEP 6XXX/7XXX	Neural Basis Motor Function and Dysfunction I
	PEP 6XXX/7XXX	Motor Development
Year 2	Course Prefix and Number	Course Title
	PEP 7XXX	Neural Basis Motor Function and Dysfunction II
	PEP 7XXX	Fundamentals of Motor Behavior
Individually Scheduled	Course Prefix and Number	Course Title
	PEP 7040	Review of the Literature
	PEP 7060	Research Internship
	PEP 7070	Grant Writing
	PEP 7080	Publication
	PEP 7340	College Teaching Internship
	PEP 7090	Conference Presentation
	PEP 7330	Supervision Internship
	PEP 7970	Dissertation

## Program Schedule

<b>Year 1</b>	<b>Course Prefix and Number</b>	<b>Course Title</b>
Fall	PEP 6XXX/7XXX	Topics in Biomechanics
	PEP 6XXX/7XXX	Neural Basis Motor Function and Dysfunction I
	PEP 7040	Review of the Literature
	SPED 7920	Doctoral Orientation Seminar
	EDUC 6570	Introduction to Educational and Psychological Research
	Total Credits	10
Spring	PEP 7XXX	Special Topics in Pathokinesiology
	PEP 6XXX/7XXX	Motor Development
	SPED 7940	Journal Reading Group
	EDUC 6600	Measurement, Design, & Analysis
	Total Credits	7
<b>Year 2</b>	<b>Course Prefix and Number</b>	<b>Course Title</b>
Fall	PEP 7XXX	Special Topics in Pathokinesiology
	PEP 7060	Research Internship
	SPED 7820	Cross-Specialization Topical Seminars
	PEP 7070	Grant Writing
	Elective	
	Total Credits	10
Spring	PEP 7XXX	Fundamentals of Motor Behavior
	PEP 7080	Publication
	PEP 7XXX	Neural Basis Motor Function and Dysfunction II
	SPED 7940	Journal Reading Group
	Total Credits	7
<b>Year 3</b>	<b>Course Prefix and Number</b>	<b>Course Title</b>
Fall	PEP 7XXX	Special Topics in Pathokinesiology
	PEP7340	College Teaching Internship
	SPED 7820	Cross-Specialization Topical Seminars
	Elective	
	Total Credits	8
Spring	PEP7090	Conference Presentation
	PEP 7330	Supervision Internship

	SPED 7400	Multicultural Issues in Disability
	Total Credits	5
<b>Year 4</b>	<b>Course Prefix and Number</b>	<b>Course Title</b>
Fall/Spring	PEP 7970	Dissertation
	Total Credits	12