

4-4-2005

3+3 Dr of Physical Therapy

The College at Brockport, College Senate

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APR 15 2005

Resolution # 12
2004-2005

SUNY BROCKPORT
PRESIDENT'S OFFICE

COLLEGE SENATE

SUNY BROCKPORT

College Senate
State University of New York
College at Brockport
350 New Campus Drive
Brockport, NY 14420-2925
(585) 395-2586 (Fax) 395-2246

TO: Dr. John B. Clark, Interim College President
FROM: The Faculty Senate Meeting on: *April 4, 2005*
RE: I. Formal Resolution (*Act of Determination*)
 II. Recommendation (*Urging the Fitness of*)
 III. Other, For Your Information (*Notice, Request, Report, etc.*)

COLLEGE SENATE
SUNY College at Brockport
APR 21 2005
350 New Campus Drive
Brockport, NY 14420-2925

SUBJ: *3+3 Dr. of Physical Therapy #05 04-05 UC*

Signed: *Dawn M. Jones* Date: *April 11, 2005*
(Dr. Dawn M. Jones, 2004-2005 College Senate President)

Please fill out the bottom portion and return document to the College Senate Office.

TO: The College Senate
FROM: Dr. John B. Clark, Interim College President
RE: I. Decision and Action Taken on Formal Resolution (circle)
a. Accepted. Effective Date: *4/19/05*
b. Deferred for discussion with the Faculty Senate on ___/___/___
c. Unacceptable for the reasons contained in the attached explanation
II, III. Response to Recommendation or Other/FYI
a. Received and acknowledged ___/___/___
b. Comment: _____

DISTRIBUTED BY PRESIDENT'S OFFICE TO: *Executive Council*

DISTRIBUTED BY PROVOST'S OFFICE TO: *Dean's Council*

DISTRIBUTED ALSO TO: Originator, Academic Advisement, Registrar (as appropriate)

Signed: *John B. Clark* Date: *4/19/05*
(Dr. John B. Clark, Interim College President, SUNY College at Brockport)

**COLLEGE SENATE OFFICE
RESOLUTION PROPOSAL COVER PAGE**

ROUTING NUMBER*	#05 04-05 UC
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NUMBER TO BE ASSIGNED BY SENATE OFFICE

DEADLINE FOR SUBMISSIONS: FEBRUARY 23 - Proposals received after the deadline may not be reviewed until next semester.

Submit all proposals to the College Senate President electronically or on a disk with a hard copy.
Please provide cover page information requested.
facprez@brockport.edu, fsenate@brockport.edu
College Senate Office, 426 Allen Building

1. PROPOSAL TITLE:

Please be somewhat descriptive, for example, *Graduate Probation/Dismissal Proposal* rather than *Graduate Proposal*.

3 + 3 Agreement: Doctor of Physical Therapy Program

2. BRIEF DESCRIPTION OF PROPOSAL:

Affiliation agreement between Upstate Medical Center and SUNY College at Brockport

3. SUBMISSION & REVISION DATES: PLEASE DATE ALL UPDATED DOCUMENTS and resubmit to the Senate Office electronically prior to Senate review and vote at fsenate@brockport.edu.

First Submission	Updated on	Updated on	Updated on
10/13/04			

4. SUBMITTED BY: (contact person)

Name	Department	Phone	Email
Eileen Daniel	Associate Dean, School of Professions	X5505	edaniel@brockport.edu

5. COMMITTEES TO COPY: (Senate office use only)

Standing Committee	Forwarded To	Date
<input type="checkbox"/> Enrollment Planning & Policies	Committee Chair Executive Committee Senate Floor College President Other	10/21/04 (resent 11/23/04)
<input type="checkbox"/> Faculty & Professional Staff Policies		1/24/05, 3/7/05
<input type="checkbox"/> General Education & Curriculum Policies		
<input type="checkbox"/> Graduate Curriculum & Policies		
<input type="checkbox"/> Student Policies		
<input checked="" type="checkbox"/> Undergraduate Curriculum & Policies		

*(ROUTING NUMBER WILL BE A CHRONOLOGICAL NUMBER SEQUENCE FOLLOWED BY COMMITTEE INITIALS)

Affiliation Agreement

***3 + 3 Agreement
between
Doctor of Physical Therapy Program, College of Health Professions
at
SUNY Upstate Medical University
and
SUNY Brockport***

October 2004

This agreement establishes procedures to promote the easy transition of qualified transfer students from SUNY Brockport to the 3 + 3 Doctor of Physical Therapy (DPT) Program in the College of Health Professions at SUNY Upstate Medical University (Upstate).

Objectives of this Agreement:

- To promote the easy transition of qualified students from SUNY Brockport to the 3+3 Doctor of Physical Therapy (DPT) Program at Upstate Medical University. The 3+3 DPT Program will require 3 years of study at SUNY Brockport and 3 years of study at Upstate. Upon successful completion of three years at SUNY Brockport, the student will transfer to SUNY Upstate Medical University and after successful completion of the first year at Upstate, SUNY Brockport students will be awarded a Bachelor's degree from SUNY Brockport. Upon successful completion of three years at Upstate in the Entry level DPT program, students will be awarded a DPT degree from SUNY Upstate Medical University.
- To provide specific information for transfer students who wish to pursue a DPT Degree at SUNY Upstate Medical University.
- To attract qualified students to SUNY Brockport and SUNY Upstate Medical University.
- To encourage academic coordination and faculty/administrative interaction, including curricular exchanges between SUNY Brockport and SUNY Upstate Medical University.
- To exchange outcome information on the 3 + 3 DPT program.

Terms of the Agreement:

High School Seniors may apply to the Early Admission Program at SUNY Upstate at the same time that they apply to SUNY Brockport. The decision to admit to SUNY Upstate Medical University will be at the sole discretion of the appropriate admissions committee in the College of Health Professions at SUNY Upstate. The decision to admit to SUNY Brockport will be at the sole discretion of SUNY Brockport.

High School Seniors who are accepted to the 3+3 DPT Program by both SUNY Brockport and Upstate will be guaranteed acceptance to the 3+3 program at both institutions providing they meet all conditions of their acceptance as required by each individual college.

High School Students accepted by SUNY Brockport only, may pursue the 3+3 DPT program and reapply at any point during their first three years of college.

Students accepted under the Early Admission program will be guaranteed 1st year graduate status upon completion of their third year of study at SUNY Brockport providing they have satisfied all degree requirements for SUNY Brockport and have completed all prerequisite courses required by Upstate for the DPT program of study as outlined in this agreement and in their letter of acceptance to Upstate.

SUNY Brockport **students** may apply to the Upstate DPT Program at any time after matriculating at SUNY Brockport. (i.e. as College freshmen, sophomores, or juniors). College students accepted to the 3+3 DPT program with Upstate must complete all courses required to meet degree requirements at SUNY Brockport as well as all prerequisite courses for the DPT program as outlined in this agreement and in their letter of acceptance. SUNY Brockport students who wish to pursue the 3+3 DPT Program must submit a DPT application to SUNY Upstate. Qualified students will be interviewed by the Upstate Department of Physical Therapy faculty and notified of their admissions status within four weeks of their interview.

Conditions of Acceptance by Upstate are as follows:

- Students will be required to maintain a 3.3 GPA with no grade less than a B in the sciences.
- GREs are waived for students accepted under the Early Admission Program for the 3+3 DPT.
- All science pre-requisite courses must include laboratories
- Courses with grades of "C" or better are acceptable for transfer credit.
- SUNY Brockport agrees to accept the first year of academic study in the DPT Program at Upstate as the final year of study at SUNY Brockport and will grant a Bachelors Degree upon successful completion (at least a 2.0 GPA) of the first year of study at Upstate.
- Students will spend three years at SUNY Brockport and three years in the DPT Program at Upstate.
- SUNY Brockport **agrees that a student accepted by Upstate will pay DPT tuition to Upstate for the first year and all subsequent years of study at Upstate.**

Administration of Financial Aid

For the purpose of administering Federal and State student financial aid, **SUNY Brockport** will be the home institution for the first three years of the program. SUNY Upstate Medical University will assume responsibility as the home institution for the second three year period, once the student has matriculated at Upstate. Students at Upstate are considered to be enrolled at the graduate/professional level. Financial aid eligibility at Upstate is based on graduate/professional enrollment, even though the individual student may not yet have earned a Bachelor's degree.

Admission Criteria for the 3+3 Program

Early Admission for high school seniors to Upstate is subject to the applicant meeting the following criteria:

- SAT Minimum score of 1100
- High School Grade Point Average 90% or higher
- High School Rank-top 20% of class
- Three Years of Science and Math at the regents or honors level
- Appropriate letter of recommendation from a Physical Therapist

Demonstrated desire to become a Physical Therapist

Early Admission for college students is subject to the applicant meeting the following criteria:

College GPA-3.3 or higher

College Science GPA-3.3 or higher

Appropriate letter of recommendation from a Physical Therapist

Demonstrated desire to become a Physical Therapist

All students should apply to Upstate by January 1st of their year of entry.

Review/Revision of the Agreement

Any changes in the courses or programs at either institution will lead to discussion between the appropriate faculty and administrators at both institutions. At the request of either party, a review of the 3 + 3 Agreement will be conducted by both institutions.

Assistance Agreement

SUNY Brockport and SUNY Upstate Medical University agree to encourage qualified students to participate in this program by providing advisement, information, and assistance to prospective transfer students.

The Admissions Office at SUNY Brockport will forward to the Admissions Office at Upstate, a list of students accepted at SUNY Brockport during their senior year of high school who have indicated their intent to apply for enrollment in the 3 + 3 DPT program. This will enable Upstate to communicate with interested students. In turn, the Upstate Admissions Office will forward a copy of the acceptance letter and conditions of acceptance to the Admissions Office at SUNY Brockport for all students accepted by Upstate who indicate that they will attend SUNY Brockport for their first three years of study.

Course Equivalencies Agreement

Both institutions agree to maintain a current listing of the course equivalencies as they appear in the attached Course Equivalents Guide.

Upstate Requirements for the 3 + 3 DPT*

- work or volunteer experience in physical therapy (40 hours per year or 80 hours total)
- CPR and First Aid certification
- a minimum of 90 credit hours including: **

Anatomy and Physiology I and II	8***	Social Science	3
General Biology	4***	General Physics I & II	8***
General Chemistry	8***	Psychology (Developmental recommended)	3
English	3	Statistics	3

** Course equivalents are outlined on the last page of this agreement

****Science Courses must include lab*

BS, DPT Degree Requirements - 3 + 3 Program

SUNY Brockport and SUNY Upstate Medical University both agree to jointly participate in the 3 + 3 Program as outlined on the following page.

Baccalaureate Degree for the 3 + 3 Program. Students will be awarded the baccalaureate degree in *Bachelor of Science (Health Science, Biology, or Physical Education)* from SUNY Brockport upon receipt of an official transcript from SUNY Upstate Medical University indicating successful completion (grade C or better in each course) of the first year of Upstate's curriculum. The first year of study at SUNY Upstate requires a total of 42 credit hours over the summer, fall and spring semesters.

Doctorate of Physical Therapy. Students will be awarded the Doctor of Physical Therapy degree by Upstate after successfully completing the complete three-year program of study as outlined below.

SUNY Brockport Outline of Course requirements for years one, two and three- to be completed by SUNY Brockport:

Physical Education with a Concentration in Exercise Physiology
Year 1

Fall	Credit Hours	Spring	Credit Hours
ENL 112-Composition	3	SOC 100-Intro. Sociology	3
MTH 122-Precalculus	3*	MTH 201-Calculus	3
CMC 211Protest &Public	3	Fine Arts	3
Fine Arts w/performance	3	Western Civilization (G,O)	3
BIO 201-Biology I	4	GEP 150 Computer Skills	1
<u>GEP 100</u>	<u>1</u>	<u>PES 343 -Adv. WT</u>	<u>3</u>
	17		16

* If MTH 122 is waived, student would take MTH 201 (Calculus) in Fall semester and 16 cr in Spring. If ENL 112 also waived, move one course from spring to fall.

Year 2

Fall	Credit Hours	Spring	Credit Hours
American History	3	PHS 116-General Physics II	4
PHS 115-General Physics I	4	BIO 322 -A & P II	4
BIO 321-A & P II	4	Contemporary Issues	3
MTH 243-Elementary Statistics	3	PSH 384-Child Psychology	3
<u>PSH 110-General Psych</u>	<u>3</u>	<u>PES Elective</u>	<u>3</u>
	17		17

Summer Year 2

PES 325 Kinesiology	4	Summer Session II
<u>PES 420 Biomechanics</u>	<u>3</u>	<u>Summer Session III</u>
	7	

Year 3

Fall	Credit Hours	Spring	Credit Hours
PES 335-Physiol. Basis Spt	4	PES 416 – Lab Tech	3
CHM 205-College Chem	4	CHM 206-College Chem II	4
PES 305-Significance Pact.	3	PES 345-Skill Acquisition	4
PES 315-Physical Fitness	3	PES 410- Exerc. Phys	3
<u>PES 360- Philo Sport</u>	<u>3</u>	<u>PEP 361 – Cardiac Rehab</u>	<u>3</u>
	17		17

Assumes MTH 112 and foreign language will be waived

PEP 458 – Internship in Exercise Physiology – Pass/Fail credit (3 credits) will be granted to the student at the end of the first year at Upstate Medical IF the student has met the requirement of a C or better in each course (during first summer and first year at Upstate). A minimum of six of the required courses during that year contain an integrated clinical component.

Health Science Liberal Arts Major with Exercise Physiology Concentration

Year 1			
Fall Semester	Credit Hours	Spring Semester	Credit Hours
ENL 112-College Composition	3	Humanities-General Education	3
*MTH 122 -Precalculus	3	SOC 100 Intro. Sociology	3
GEP 100 -Academic Planning Seminar	1	CHM 206 -College Chemistry II	4
BIO 201-Biology I	4	Western Civilization (O)	3
CHM 205-College Chemistry I	4	Fine Arts-General Education	3
GEP 150 -Computer Skills	1		
	16		16

* If MTH 122 is waived, student would take MTH 201 (Calculus)

Year 2			
Fall Semester	Credit Hours	Spring Semester	Credit Hours
HST-American History	3	PSH 384-Child Psychology	3
PHS 115-Gen. Physics I w/Lab	4	PHS 116 -Gen. Physics II w/lab	4
Fine Arts (Performance)	3	HLS 311 -Nutrition	3
HLS 301-Prin. of Healthy Living	3	BIO 322 -A & P II	4
BIO 321-A & P I	4	HLS 306 -Contemporary Issues	3
	17		17

Year 3			
Fall Semester	Credit Hours	Spring Semester	Credit Hours
PES 325 -Kinesiological Bases	4	PES 361 -Cardio. Rehab.	3
HLS 312 -Mental Health	3	PES 410 -Physiology of Ex.	3
HLS 303-Environmental Health	3	HLS 409 -Drug Use & Abuse	3
HLS 419 -Human Sexuality	3	HLS 488 -Biostatistics	3
PES 335 -Physiological Bases	4	PES 416 -Lab Techniques	3
	17		15

Six credits of HLS electives will be completed at Upstate during the fourth year: PHYT 601 -Gross Anatomy

PEP 458 – Internship in Exercise Physiology – Pass/Fail credit (3 credits) will be granted to the student at the end of the first year at Upstate Medical IF the student has met the requirement of a C or better in each course (during first summer and first year at Upstate). A minimum of six of the required courses during that year contain an integrated clinical component.

Biology Major*

Year 1

Fall Semester	Credit Hours	Spring Semester	Credit Hours
ENL 112-College Composition	3	Humanities-General Education	3
GEP 150 -Computer Skills	1	SOC-100 Intro. Sociology	3
Western Civilization w/O	3	CHM 206 -College Chemistry II	4
BIO 201-Biology I	4	BIO 202-Biology II	4
CHM 205-College Chemistry I	4	Fine Arts-General Education	3
GEP 100 -Academic Planning Seminar	1		
	16		17

Year 2

Fall Semester	Credit Hours	Spring Semester	Credit Hours
HST-American History	3	BIO 301 -Cell biology	3
PHS 115-Gen. Physics I w/Lab	4	PHS 116 -Gen. Physics II w/lab	4
Perspective on Women, D	3	MTH 201-Calculus	3
MTH 122 -Precalculus	3	Contemporary Issues	3
Fine Arts (Performance)	3	BIO 306-Cell,Genetics Lab	3
	16		16

Year 3

Fall Semester	Credit Hours	Spring Semester	Credit Hours
BIO 321-A & P I	4	A & P II	4
PSH 384-Child Psychology	3	MTH 243 -Statistics	3
BIO 302 -Genetics	3	BIO 4XX Elective	3/4
CHM 305-Organic Chemistry	4	BIO 4XX Elective	3/4
BIO 4XX Elective	3/4	BIO 498 -Seminar	1
	17/18		15-17

Additional 400 level courses completed at Update during the fourth year: PHYT 601 -Gross Anatomy

**Program of Study – Entry-Level Doctor of Physical Therapy
Program**

Summer Session		Credit Hours
PHYT 601	Gross Anatomy	6
PHYT 602	Professional Behaviors	3
Total		9

Fall Semester		Credit Hours
PHYT 611	Bioscience I	5
PHYT 625	Movement Analysis & Patient/Client Management I	4
PHYT 615	Interventions I	3
PHYT 621	Foundations of Patient/Client Management	3
PHYT 603	Foundations of Scientific Inquiry	1
Total		16

Spring Semester		Credit Hours
PHYT 612	Bioscience II	2
PHYT 604	Differential Diagnosis in Physical Therapy	3
PHYT 626	Movement Analysis & Patient/Client Management II	4
PHYT 616	Interventions II	2
PHYT 605	Neuroscience	6
Total		17

Completion of these three terms (42 credit hours) meets the BS degree requirements for SUNY Brockport.

Summer Session		Credit Hours
PHYT 641	Teaching & Learning In PT	2
PHYT 631	Patient/Client Management: Adult Neurological Disorders	3
PHYT 642	Research Methods	2
PHYT 632	Patient/Client Management: The Spine	1
Total		8

Fall Semester		Credit Hours
PHYT 661	Clinical Experience I	8
PHYT 633	Patient/Client Management: Acquired Conditions	3
PHYT 643	Critical Inquiry	1
Total		12

Spring Semester		Credit Hours
PHYT 644	Physiology of Exercise	2
PHYT 617	Interventions III	3

PHYT 634	Patient/Client Management: Developmental Disabilities	3
PHYT 647	Psychosocial Aspects of Patient Care	2
PHYT 646	Special Topics in Orthopedics	2
PHYT 648	Imaging Elective	2
Total		14-17

Summer Session		Credit Hours
PHYT 662	Clinical Experience II	8
PHYT 650	Integumentary Management Elective	1
Total		9-12

Fall Semester		Credit Hours
PHYT 651	Applied Clinical Decision Making	2
PHYT 652	Management Principles	3
PHYT 653	Medical Ethics for Physical Therapists	3
PHYT 654	Gerontology for Physical Therapists	2
PHYT 635	Patient/Client Management: Cardiovascular & Pulmonary Disorders Elective	3
Total		13-16

Spring Semester		Credit Hours
PHYT 663	Clinical Experience III	12
PHYT 664	Clinical Experience IV	12
Total		24

Course Descriptions

PHYT 601 Gross Anatomy (6 credit hours)

- This course utilizes a regional approach to the study of human anatomy. Cadaver dissection in the laboratory is supplemented by lectures, clinical correlation presentations, and audiovisual aids. Clinical correlations use a problem based format. Prerequisite: Physical Therapy Matriculation.

PHYT 602 Professional Behaviors (3 credit hours)

- This course is framed around the generic abilities and development of professional behaviors. The principles and foundational elements necessary for practicing in the professional realm of physical therapy and in the health care environment are reviewed. Issues relating to standards of practice, ethical and legal considerations, communication, time and resource management, stress management in relation to health and wellness, professionalism, and interpersonal and professional relationships are covered. Self-reflection and portfolio development are integral to the course. Prerequisite: Physical Therapy Matriculation.

PHYT 611 Bioscience I (5 credit hours)

- Using a systems approach, this course emphasizes the integration of histology, physiology, pathology, and pharmacology as these disciplines apply to the human body across the life span. In conjunction with information already obtained in Gross Anatomy, the relationship between structure and function of healthy body systems is investigated. The impact of common pathologies, and the pharmacological interventions used to treat those pathologies, on physical therapy practice are subsequently analyzed. Units of study include normal and abnormal structure and function of cells and tissue types, neural, endocrine, immune, muscle, circulatory, lymphatic and respiratory systems. Prerequisite: Gross Anatomy.

PHYT 625 Movement Analysis & Patient/Client Management I (4 credit hours)

- This course introduces and integrates basic kinesiological/biomechanical principles related to the normal function/movement of the cervical spine and upper quarter with the basic principles of patient/client management of common conditions of the cervical region and upper extremity across the life span. The use of tests and measures associated with abnormal movement/function of the cervical spine and upper extremity, particularly those for joint integrity and mobility, muscle performance, range of motion, and pain are covered. Principles of diagnosis and the determination of the associated anatomical structure or musculoskeletal pathology are also introduced, as is the medical management for selected upper extremity conditions. Intervention rationale includes evidence- based practice. Clinical experiences are integrated into this course. Prerequisites: Gross Anatomy and Professional Behaviors.

PHYT 615 Interventions I (3 credit hours)

- This course introduces students to foundational physical therapy interventions throughout the life span, including health and wellness promotion. The principles of safe patient management including positioning, bed mobility, transfers, assistive devices, infection control and medical equipment considerations are reviewed. Units on fitness, exercise, application of wellness principles, soft tissue techniques, and therapeutic massage are covered. Clinical experiences are integrated into this course. Prerequisites: Gross anatomy and Professional Behaviors.

PHYT 621 Foundations of Patient/Client Management (3 credit hours)

- This course introduces the students to foundational concepts that serve as a framework for the process of examination and evaluation of patients/clients across all ages, diagnoses and practice settings. A holistic approach is utilized, emphasizing the

concept of function as it relates to the practice of physical therapy. Health risks, screening and assessment are reviewed. Topics include the disablement model, chart review and history taking, functional tests, use of evidence-based practice, wellness and health promotion, documentation and the Guide to PT Practice. Clinical experiences are integrated into this course. Prerequisite: Gross Anatomy.

PHYT 603 Foundations of Scientific Inquiry (1 credit hour) – This course introduces the framework for evidence-based practice and outcomes assessment. Prerequisite: Physical Therapy Matriculation.

PHYT 612 Bioscience II (2 credit hours) – This course is a continuation of Bioscience I. Using a systems approach, this course emphasizes the integration of histology, physiology, pathology, and pharmacology as these disciplines apply to the human body across the life span. Units of study include the study of normal and abnormal structure and function of skeletal, integumentary, gastrointestinal, and genitourinary systems. Prerequisites: Bioscience I.

PHYT 604 Differential Diagnosis in Physical Therapy (3 credit hours) - This course presents theories and concepts of clinical decision making and diagnosis and reviews a variety of systemic conditions across the life span with an emphasis placed on areas most pertinent to physical therapy. The clinical manifestations, screening examination(s), therapeutic management and relevance to physical therapy practice are addressed. Relevant laboratory values and diagnostic tests are included. Focus is placed on differential diagnosis of systemic disorders that mimic musculoskeletal dysfunction. Through lecture, discussion, review of the literature, case studies and clinical decision making, students gain an understanding of how various diseases impact all areas of patient/client management. Clinical

experiences are integrated into this course. Prerequisites: Successful completion of all first year fall semester courses.

PHYT 626 Movement Analysis & Patient/Client Management II (4 credit hours) - This course integrates kinesiological/biomechanical principles related to the normal function/movement of the spine and lower quarter, including posture and gait, with the basic principles of patient/client management of spinal and lower extremity conditions across the life span. The use of tests and measurements associated with abnormal movement/function of the lower extremity, particularly those for joint integrity and mobility, muscle performance, range of motion, pain, posture, gait and locomotion are covered. Diagnosis and the determination of the associated anatomical structure or musculoskeletal pathology of the lower quarter is also covered, as is the medical management of selected lower extremity conditions. Intervention rationale includes the use of evidence-based practice. Clinical experiences are integrated into this course. Prerequisites: Successful completion of all first year fall semester courses.

PHYT 617 Interventions II (2 credit hours) - This course reviews the biophysical principles, physiological implications, indications and contraindications underlying various physical agents, electrotherapeutic procedures and devices, and the operation of these modalities. Intervention rationale includes the use of evidence-based practice. Clinical experiences are integrated into this course. Prerequisites: Successful completion of all first year, fall semester courses.

PHYT 605 Neuroscience (6 credit hours) - This course presents an integrated approach to the general organization and function of the human nervous system and includes an in-depth presentation of human neurophysiology and

neuroanatomy. Emphasis is placed on the sensory systems and motor control. Medical aspects of neurological conditions across the life span are integrated with basic neuroscience knowledge. This course consists of 3 integrated units (neuroanatomy, neurophysiology, and clinical neurology) delivered in two "parts" of the course. The neuroanatomy unit is delivered first and the knowledge gained from this unit is utilized extensively during presentations of the other two units during the second portion of the course. Prerequisites: Bioscience II

PHYT 641 Teaching & Learning in Physical Therapy (2 credit hours) - This course emphasizes the knowledge, skills and behaviors needed by the physical therapist to educate patients/clients, caregivers, families, professional colleagues, students and community members across the life span. Content includes application of teaching and learning theories, motivational theory, curriculum design, lesson plan development, didactic and clinical teaching techniques, methods of instruction and evaluation, and an introduction to the use of technology in education. A requirement of this course is to participate in a videotaped microteach session. Prerequisite: Professional Behaviors.

PHYT 631 Patient/Client Management: Adult Neurological Disorders (3 credit hours) - This course begins the development of skills in examination, evaluation and interventions with individuals with neurological impairments. Content focuses on the adult patient with central nervous system dysfunction, such as head trauma, cerebral vascular accident and other neurological disorders. A problem solving approach utilizing evidence-based practice is emphasized, integrating student's previous knowledge from Neuroscience regarding normal functioning of the nervous system, as well as disorders of the nervous system. Prerequisites:

Neuroscience, Movement Analysis and Patient/Client Management II, Interventions II.

PHYT 642 Research Methods (2 credit hours) - This course acquaints the student with the basic language, logic and methods of quantitative, qualitative and epidemiologic research as they apply to the health sciences. Principles of research are introduced through lecture, readings and assignments. Students are also introduced to the statistical tools most commonly employed in health research and to the use of a computer software package to store, manipulate and analyze data. Prerequisite: Foundations of Scientific Inquiry.

PHYT 632 Patient/Client Management: The Spine (1 credit hour) - This introductory course includes demographics, classification, examination, evaluation and physical therapy diagnosis of the spine. Prerequisites: Foundations of Examination and Evaluation, Bioscience II, Movement Analysis and Patient/Client Management II.

PHYT 661 Clinical Experience I (8 credit hours) - This is the first of four full-time clinical education experiences that integrates academic course work with patient/client care. Experiences may take place outside of the Syracuse area. Under the supervision of clinical faculty, students begin to develop knowledge, skills, and behavior in all elements of patient/client management as defined by the performance criteria in the Clinical Performance Instrument (CPI). Students begin to integrate evidence-based practice into clinical practice through performance of a clinical assignment. Entry-level competency in professional behaviors and in demonstration of adherence to ethical and legal practice standards is required at the end of Clinic I. Required passing scores for Clinic I are specifically defined in course objectives. Prerequisites: Successful completion of all second year summer course work.

PHYT 633 Patient/Client Management: Acquired Conditions (3 credit hour s) - This course presents the theories and principles of examination, evaluation, and interventions for specific conditions across the life span. These conditions include amputation and spinal cord injury. Topics including orthotics, home and work barriers, and adaptive equipment management are reviewed. Intervention rationale includes evidence-based practice. Prerequisites: Foundations of Examination and Evaluation, Interventions I, Differential Diagnosis.

PHYT 643 Critical Inquiry (1 credit hour) - The purpose of this seminar is to apply the broad concepts of research methods, as presented in the Research Methods course, to specific clinical problems for evidence-based practice of physical therapy. The student will read, critically analyze, and summarize evidence found in physical therapy and related literature to complete a written review of literature and a research proposal. Prerequisite: Research Methods.

PHYT 644 Physiology of Exercise (2 credit hours) - Physiological responses to acute and chronic (training) exercise across the life span are examined. Principles of testing skeletal muscle function and cardiorespiratory fitness utilizing evidence-based practice are emphasized through laboratory and lecture experiences. Guidelines for exercise prescription are addressed using case examples. Prerequisites: Bioscience II, Differential Diagnosis.

PHYT 617 Interventions III (3 credit hours) - This course develops clinical skills in the operation and application of various physical agents and electrotherapeutic modalities and in advanced therapeutic exercise techniques for selected patient populations across the life span, A unit on casting and hand splint fabrication is also presented. Evidence-

based practice is used to evaluate the clinical efficacy of these applications. Prerequisites: Interventions II, Movement Analysis and Patient/Client Management II, Patient Client Management: Adults with Neurological Disorders.

PHYT 634 Patient/Client Management: Developmental Disabilities (3 credit hours) - This course is a continuation of the skill development in examination, evaluation, and intervention that began in Patient/Client Management: Adults with Neurological Disorders as it applies to individuals with developmental disabilities. Theory and principles of development as they pertain to examination, evaluation, and intervention using evidence-based practice are examined. Topics for discussion include family-centered care, special concerns of various age groups and selected medical diagnoses, impact of public law on delivery of care, and clients with multiple disabilities. Prerequisites: Patient/Client Management of Adults with Neurological Disorders.

PHYT 647 Psychosocial Aspects of Patient Care (2 credit hours) - This course provides an opportunity to analyze and synthesize the psychological and sociological aspects of patient/client care. The emphasis is on self-directed learning and self knowledge. Topics include awareness of self, effective helping strategies, group dynamics, family theory, values, diversity, living with a disability, sexuality grief, death and dying. Prerequisites: Clinic I.

PHYT 646 Special Topics in Orthopedics (2 credit hours) - This course encompasses medical lecture and physical therapy intervention for a variety of orthopedic disorders across the life span. A problem based learning format utilizing evidence-based practice is used to analyze case studies emphasizing spinal and TMJ

intervention. Prerequisite: Patient/Client Management: The Spine.

PHYT 648 Imaging (2 credit hours) - This course offers a description of radiology including normal compared to pathologic bone, bone embryology, and common fracture sites. Indications and implications of commonly used diagnostic imaging tests such radiographs, MRI, ultrasound, PET scans, endoscopy, CT, MRI, discograms, dexascans, and myelograms is discussed. Prerequisites: Bioscience II, Special Topics in Orthopedics.

Elective (3-9 credit hours) - Students have the opportunity to choose from a variety of electives that include specific courses or experiential learning activities. Course content may include consortium courses, SUNY Upstate Medical University courses, or independent study in advanced physical therapy examination, evaluation or intervention. Experiential learning activities may include teaching experiences, research projects or in-depth, evidence-based study. Prerequisites: Physical Therapy matriculation and permission of the instructor.

PHYT 662 Clinical Experience II (8 credit hours) - This is the second of four full time clinical education experiences that integrate academic course work with patient/client care. Experiences may take place outside of the Syracuse area. Under the supervision of clinical faculty, students continue to develop knowledge, skills, and behavior in all elements of patient/client management as defined by the performance criteria in the Clinical Performance Instrument (CPI). Students continue to develop evidence-based practice skills that will culminate in a presentation. Entry-level competency in the foundational elements of physical therapy practice, in professional development, in the ability to adopt delivery of care to reflect respect for and sensitivity to individual differences, and to

demonstrate professional/ social responsibilities beyond those defined by work expectations is required at the end of Clinic II. Required passing scores for Clinic II in other performance criteria are specifically defined in course objectives. Prerequisites: Successful completion of all spring semester second year course work.

PHYT 650 Integumentary Management (1 credit hour) - This course presents physical therapy management of common pathological conditions of the skin across the life span encountered by physical therapists. The contributions of other health care professionals in the management of pathological conditions of the skin are identified, and strategies for prevention of skin conditions are discussed. Prerequisites: Bioscience II, Differential Diagnosis.

PHYT 651 Applied Clinical Decision Making – Case Report Methodology (2 credit hours) - This capstone course encompasses examination, evaluation, physical therapy diagnosis, prognosis, and interventions of selected conditions across the life span seen in physical therapy. A problem-based learning format, using evidence-based practice, is used to analyze case studies. Prerequisite: Clinic II.

PHYT 652 Management Principles (3 credit hours) - This course allows the student to analyze the administrative process as it relates to the practice of physical therapy in a variety of health care systems. Content includes personnel management, legislation, strategic planning, marketing, budgeting, conflict resolution, negotiating, networking, consulting and fiscal management. Learning formats consist of lectures, small group work and completion of an administrative project. Prerequisite: Clinic II.

PHYT 653 Medical Ethics for Physical Therapists (3 credit hours) - This course involves an examination of ethical theories and principles as they inform contemporary health-care dilemmas. Students learn how philosophical

principles - such as autonomy, confidentiality, veracity, justice, beneficence, non-maleficence, and informed consent - create a context for exploring particular ethical topics (i.e., suicide, reproductive rights, death and dying, abortion, testing and screening, biomedical research, and professional conduct). Though dealing with practical situations, this course emphasizes critical and theoretical thinking. An oral presentation and research paper are required. Prerequisites: None

PHYT 654 Gerontology for Physical Therapists (2 credit hours) - This writing intensive course provides an in depth examination of aging as it relates to physical therapy. Concepts and principles of aging are examined in light of evidence-based practice, including the biological, psychological, social and cultural aspects of aging. Care is given to differentiate between normal biological age changes and those due to other factors such as physical inactivity, emotional responses, and disease processes. Prerequisites: Clinic II.

PHYT 635 Patient/Client Management - Cardiovascular and Pulmonary Disorders (3 credit hours) – Using a problem based learning format, this course focuses on cardiovascular fitness and the management of patient/clients with cardiovascular and pulmonary disorders across the life span. A review of normal structure and function of the cardiovascular and pulmonary systems including relevant laboratory and diagnostic tests is included. The pathophysiology of the disorders of respiratory system, heart and the circulatory system is discussed in detail as it applies to patients with a cardiovascular and/or pulmonary impairment. Exercise interventions and evidence-based practice are stressed. Prerequisite: Clinic II.

PHYT 663 Clinical Experience III (12 credit hours) -- This is the third of four full time clinical education experiences that integrates academic course work with

patient/client care. Experiences may take place outside of the Syracuse area. Under the supervision of clinical faculty, students continue to develop knowledge, skills, and behavior in all elements of patient/client management as defined by the performance criteria in the Clinical Performance Instrument (CPI). The students demonstrate entry-level performance in communication and in education of others. Required passing scores for Clinic III in other performance criteria are specifically defined in course objectives. Prerequisites: Successful completion of all fall semester third year course work.

PHYT 664 Clinical Experience IV (12 credit hours) -- This is the fourth and final full time clinical education experience that takes place under the supervision of clinical faculty. Experiences may occur outside of the Syracuse area. At the conclusion of this experience, students consistently demonstrate entry-level performance in all areas of patient/client management as defined by the Clinical Performance Instrument (CPI). Prerequisite: Clinic III.

COURSE EQUIVALENTS AT SUNY BROCKPORT

The following courses have been reviewed by SUNY UPSTATE MEDICAL UNIVERSITY and SUNY BROCKPORT and have been approved as meeting the pre-requisite course requirements as listed by program in this agreement:

SUNY UPSTATE REQUIREMENTS

General Biology I
General Biology II
General Chemistry I
General Chemistry II
General Physics I
General Physics II
Anatomy & Physiology I
Anatomy & Physiology II
English Composition
Pre-Calculus
Calculus I
Statistics
Child Psychology
Sociology

SUNY BROCKPORT EQUIVALENT

BIO201 Biology I
BIO202 Biology II
CHM205 College Chemistry
CHM206 College Chemistry II
PHY115 General Physics I with Lab*
PHY116 General Physics II with Lab*
BIO 321 Anatomy and Physiology I
BIO322 Anatomy and Physiology II
ENL112 College Composition
MTH122 Precalculus
MTH201 Calculus I
MTH243 Elementary Statistics**
PSH384 Child Psychology
Any course with a SOC prefix

*PHS 201, 202 or PHS 211, 212 are also acceptable as General Physics I and II.

**Equivalent courses: HLS 488-Applied Biostatistics and Epidemiology

Liaison and Approval

Liaison from College

**Liaison from SUNY Upstate Medical
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Dean, College of Health Professions

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