

PED 215 (0804) Varsity Basketball IV

Prerequisite: Varsity Basketball III

Credit Hours: 1

PED 220 (0791) Varsity Softball III

Prerequisite: Varsity Softball II

Credit Hours: 1

PED 221 (0792) Varsity Softball IV

Prerequisite: Varsity Softball III

Credit Hours: 1

PED 222 (0826) Varsity Wrestling III

Prerequisite: Varsity Wrestling II

Credit Hours: 1

PED 223 (0827) Varsity Wrestling IV

Prerequisite: Varsity Wrestling III

Credit Hours: 1

## Physical Science

All 5 Credit Hour Physical Science courses include a Lab.

PHSC 101 (0901) Physical Geology KRSN PSI1030

Prerequisite: Reading Essentials

Credit Hours: 5

Physical Geology studies planet Earth and its physical, chemical and biological attributes. Emphasis will be on the mid-continent geographic region and Kansas in particular. Locally minerals, rocks and hydrological systems will be investigated.

PHSC 103 (1910) Introduction to Astronomy KRSN PHY1020\*\*

Prerequisite: MATH 100 Intermediate Algebra or equivalent

Credit Hours: 5

A study via instruction and laboratory experiences of the historical developments in astronomy from ancient times; the theoretical and empirical foundations of astronomy; the composition and mechanics of the solar system, stellar systems, and galactic systems; and introduction to observational astronomy and cosmology.

PHSC 105 (1911) Physical Science KRSN PSI1010/1011/1012\*\*

Prerequisite: MATH 96 Beginning Algebra (MATH 100 Intermediate Algebra is strongly recommended)

Credit Hours: 5

A survey course that emphasizes physics, chemistry, earth science, and astronomy. Designed for the student whose concentration is not in a science or engineering field, but who needs to fulfill a laboratory science requirement. Not open to those who have any college credit in chemistry or physics.

## Physical Therapist Assistant

PTA 101 Introduction to PTA

Prerequisite: Admission to PTA Program

Credit Hours: 5

This course is designed to teach physical therapist assistant students the roles and responsibilities of the PTA, basic communication skills for the healthcare provider, HIPPA, documentation, teaching and learning, safety, infection control and universal precautions, safety, vital signs data collection, basic gait training, and patient handling techniques. Students will be provided an overview of the history and development of physical therapist and the physical therapist assistant. They will be provided with training on reading

\*Refer to the Placement Testing Procedure 3.22, page 25 \*\* Refer to Course Transfer, page 20

and following the Physical Therapist's plan of care and learn to document their treatments using a SOAP format. Professional behaviors and evidence based practice will be introduced.

PTA 102 PTA Kinesiology

Prerequisite: Acceptance to the PTA Program

Credit Hours: 3

This course is designed to teach the physical therapist assistant students the concepts of kinesiology and biomechanics, joint structure and function, palpation, goniometry, manual muscle testing and gait analysis.

PTA 103 Physical Agents and Therapeutic Interventions

Prerequisite: Admission to PTA Program

Credit Hours: 5

This course is designed to teach the PTA student various modalities used in rehabilitation setting. Also covered, is therapeutic massage, myofascial techniques and wound care interventions.

PTA 104 Therapeutic Exercise

Prerequisite: Admission to PTA Program

Credit Hours: 3

This course is designed to introduce the concepts of therapeutic exercise used in the clinical setting. It focuses on specific areas of the body as well as diagnostic categories. Cardiopulmonary physical therapy is also covered in this course. The student will be able to develop an effective treatment plan that is consistent with the Physical Therapist's plan of care.

PTA 105 Clinical Education I

Prerequisite: Admission to PTA Program

Credit Hours: 2

This course is a three (3) week full-time clinical affiliation at an approved health care facility. Students will be placed in an environment to facilitate didactic and clinical skills and further develop skills in physical therapy care/treatment. Supervision during the clinical experience will be performed by the clinical instructor assigned to the student by the health care facility.

PTA 201 Pathology for the PTA

Prerequisite: Admission to PTA Program

Credit Hours: 3

This course is designed to familiarize the student with common pathologies seen in the realm of physical therapy. Emphasis will be not only on the illness and disease process but the associated disability. Implications and precautions as they relate to rehabilitation will be emphasized.

PTA 202 PTA Musculoskeletal

Prerequisite: Admission to PTA Program

Credit Hours: 5

This course is designed to train the student to provide physical therapy, under the direction of a physical therapist, to clients with a variety of musculoskeletal disorders. Emphasis is on critical thinking and the PTA's role in the data collection of patients with orthopedic conditions. Evidence based practice will be emphasized and cultural competence will be introduced.

PTA 203 Neuromuscular Rehabilitation

Prerequisite: Admission to PTA Program

Credit Hours: 5

This course is designed to introduce various neurological diseases as well as the treatments used by physical therapy professionals. Emphasis will be on assessments and treatment appropriate for the physical therapist assistant. Theoretical foundations, management, functional problems and movement disorders are covered.

PTA 204 Clinical Education II

Prerequisite: Admission to PTA Program

Credit Hours: 3

\*Refer to the Placement Testing Procedure 3.22, page 25 \*\* Refer to Course Transfer, page 20

This course is a four (4) week full-time clinical affiliation at an approved healthcare facility. Students will be placed in an environment to facilitate didactic and clinical skills and further develop skills in physical therapy care/treatment. Supervision during the clinical experience will be performed by the clinical instructor assigned to the student by the healthcare facility.

PTA 205 Clinical Education III

Prerequisite: Admission to PTA Program

Credit Hours: 7

This course is an eight week full-time clinical affiliation at an approved healthcare facility. Students will be placed in an environment to facilitate didactic and clinical skills and further develop skills in physical therapy care/treatment. Supervision during the clinical experience will be performed by the clinical instructor assigned to the student by the healthcare facility.

## Physics or Engineering

All 5 Credit Hour Physics courses include a Lab.

PHYS 201 (1931) College Physics I KRSN PHY1010/1011/1012\*\*

Prerequisite: Concurrent enrollment in or completion of MATH 125 Trigonometry

Credit Hours: 5

Physics I is the study of translational and rotational motion, force, work, mechanical and thermal energy, linear and angular momentum, and fluid mechanics using the tools of algebra and trigonometry.

PHYS 203 (0901) Engineering Physics I KRSN PHY1030/1031/1032\*\*

Prerequisite: Concurrent enrollment in or completion of MATH 130 Calculus I

Credit Hours: 5

Physics I is the study of translational and rotational motion, force, work, mechanical and thermal energy, linear and angular momentum, and fluid mechanics using the tools of algebra, trigonometry, and calculus.

PHYS 205 (1932) College Physics II KRSN PHY2020/2021/2022\*\*

Prerequisite: MATH 125 Trigonometry and PHYS 201 College Physics I

Credit Hours: 5

Physics II is the continuation of Physics 201 using the tools of algebra and trigonometry. Topics covered in this course will include electricity and magnetism, waves, optics, and an introduction to modern physics.

PHYS 208 (0902) Engineering Physics II KRSN PHY2030/2031/2032\*\*

Prerequisite: Concurrent enrollment in or completion of MATH 131 Calculus II.

Credit Hours: 5

Physics 208 is the continuation of Physics 203 using the tools of algebra, trigonometry, and calculus. Topics covered in this course will include electricity and magnetism, waves, optics, and an introduction to modern physics.

## Political Science

POLS 103 (2271) State and Local Government

Prerequisite: None

Credit Hours: 3

State and Local Government is designed to introduce students to our federal system of government, and it specifically instructs students in the Constitutional basis for State and Local Governments as well as their structure and mechanics. The course emphasizes basic questions about the forces that produce order, conflict, and change in government. State and Local Government is recommended for political science majors, pre-law students, criminal justice students and all students who want an understanding of the processes, functions and institutions of our system of government below the National Government level.

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