

PTAP-140 Therapeutic Exercise 3 cr.

Clinical techniques related to stretching, strengthening, posture, balance, coordination, agility, and aerobic conditioning. Prerequisites: PTAP-110, PTAP-125, PTAP-130, and PTAP-150. Offered: Fall and Summer.

PTAP-150 PTA Procedures I 4 cr.

Clinical procedures related to patient care including hand washing, vitals, pain assessment, body mechanics, ROM, bed mobility, and transfers. Offered: Spring and Summer.

PTAP-160 PTA Procedures II 3 cr.

Clinical procedures related to patient care including modalities, massage, airway clearance techniques, and wound care. Prerequisites: PTAP-110, PTAP-125, PTAP-130, and PTAP-150. Offered: Fall and Summer.

PTAP-210 Principles of Rehabilitation 5 cr.

Treatment strategies for patients with complex diagnoses such as developmental disorders, CVA, TBI, SCI, AKA/BKA, and UMN/LMN lesions. Prerequisites: PTAP-140 and PTAP-160. Offered: Fall & Spring.

PTAP-230 Clinical Externships (Acute) 4 cr.

This full-time four week externship offers direct patient care experience in a hospital setting. Externships may be completed in any geographical area provided a legal contract is established between the physical therapy facility and San Juan College. Prerequisites: PTAP-140 and PTAP-160. Corequisites: PTAP-250. Offered: Fall and Summer.

PTAP-250 PTA Procedures III 4 cr.

Clinical procedures related to patient care including traction, electrotherapy, aquatics and hydrotherapy. Prerequisites: PTAP-140 and PTAP-160. Corequisites: PTAP-240 Offered: Fall and Summer

PTAP-260 Seminar 2 cr.

Study of career related topics including obtaining licensure and developing a career plan. Prerequisites: PTAP-140 and PTAP-160. Offered: Fall & Spring.

PTAP-270 Clinical Externship (Outpatient) 3 cr. TO 7 cr.

This externship is a full-time clinical externship that provides experience in direct patient care in an outpatient/rehab setting. This externship may be completed in any geographical area provided a legal contract is established between the physical therapy facility and San Juan College. Prerequisites: PTAP-210, PTAP-230, PTAP-250, and PTAP-260, minimum grade C. Corequisites: PTAP-230. Offered: Fall & Spring.

PTAP-290 Clinical Externship (Rehab) 7 cr.

Clinical externships provide students with the opportunity to apply clinical skills acquired in the academic setting. This externship offers experience in direct patient care in an outpatient/rehabilitation setting. Externships may be completed in any geographic area provided a legal contract is established between the physical therapy facility and San Juan College. Prerequisites: PTAP-210, PTAP-230, PTAP-250, and PTAP-260. Minimum grade C. Offered: Fall & Spring. Faculty Permission Required.

READING**RDNG-050 Reading Fundamentals 3 cr.**

Build basic reading skills, with emphasis on comprehension, vocabulary. The course is offered for a letter grade. Course not applicable towards any degree or certificate. (RR option course) Offered: All.

RDNG-095 Critical Reading 3 cr.

Develop critical reading skills for academic and life-long learning, using a variety of sources. Course not applicable towards degree. (RR option course). Prerequisites: Complete RDNG-050 or appropriate Reading Accuplacer score. Offered: All.

RDNG-113 Academic Reading and Study Strategies 3 cr.

Develop academic reading and study skills for college, using authentic academic textbook material. Prerequisites: Completion of RDNG-095 or appropriate Reading Accuplacer score. Offered: All.

RDNG-252 Diagnostic Teaching Reading/Elem School 3 cr.

Theoretical and practical aspects of diagnostic teaching of reading. Offered: On Demand.

RDNG-256 Reading in the Content Fields 3 cr.

An in-depth study of reading and study skills. The structures of the different disciplines studied in all grades. Offered: On Demand.

RENEWABLE ENERGY**RENG-150 Modeling with Google SketchUp 3 cr.**

Modeling and representing renewable energy systems in both two and three dimensions will be covered using Google SketchUp Pro. Creating two dimensional drawings will be introduced along with the basics of creating three dimensional models. Creating, analyzing, and presenting three dimensional models of renewable energy systems will be explored in detail. Offered: Fall & Spring. Faculty Permission Required.

RENG-220 PV Theory & System Design 4 cr.

Basic photovoltaic (PV) energy conversion theory is introduced in relation to current silicon semiconductor technology. DC electrical energy production from incident solar radiation is covered along with PV module interconnection to meet load requirements. PV module performance specifications are compared to field performance in a laboratory setting. Inverter theory (for AC electrical energy production) and efficiency are discussed, as well as storage system sizing, charge controller operation and issues of connectivity with the existing utility electrical grid. Prerequisites: RENG-252 and INST-144, minimum grade C. Offered: Spring.

RENG-242 PV Installation and the NEC I 3 cr.

This hands-on course will first cover the National Electric Code (NEC) specifics concerning the photovoltaic(PV) installation - articles 90 to 400. Then, code compliant wiring of basic residential electrical systems will be explored in detail. Students will use materials designed for installation practice both indoors and out. Existing PV installations will be visited and studied. Minimum grade required: C. Corequisites: RENG-242L, INST-144. Offered: Fall. Faculty Permission Required.