

PT 632: PHARMACOLOGY FOR PHYSICAL THERAPISTS

In Workflow

1. PT Committee Chair (william.garcia@csus.edu)
2. PT Chair (mckeough@csus.edu)
3. HHS College Committee Chair (heather.thompson@csus.edu)
4. HHS Dean (sac19804@csus.edu)
5. Academic Services (catalog@csus.edu)
6. Senate Curriculum Subcommittee Chair (curriculum@csus.edu)
7. Dean of Undergraduate (gardner@csus.edu)
8. Dean of Graduate (cnewsome@skymail.csus.edu)
9. Catalog Editor (catalog@csus.edu)
10. Registrar's Office (k.mcfarland@csus.edu)
11. PeopleSoft (PeopleSoft@csus.edu)

Approval Path

1. Wed, 04 Oct 2023 22:33:58 GMT
William Garcia (william.garcia): Approved for PT Committee Chair
2. Wed, 04 Oct 2023 22:37:15 GMT
Michael Mckeough (mckeough): Approved for PT Chair
3. Wed, 18 Oct 2023 05:38:30 GMT
Heather Thompson (heather.thompson): Approved for HHS College Committee Chair
4. Wed, 18 Oct 2023 16:20:25 GMT
Robert Pieretti (sac19804): Approved for HHS Dean
5. Wed, 01 Nov 2023 23:23:26 GMT
Katie Hawke (katiedickson): Approved for Academic Services

History

1. Nov 4, 2020 by Heather Crummett (crummetth)
2. Aug 14, 2023 by Janett Torset (torsetj)

Date Submitted: Wed, 04 Oct 2023 22:33:25 GMT

Viewing: PT 632 : Pharmacology for Physical Therapists

Last approved: Mon, 14 Aug 2023 14:01:43 GMT

Last edit: Wed, 04 Oct 2023 22:33:23 GMT

Changes proposed by: William Garcia (217486491)

Contact(s):

Name (First Last)	Email	Phone 999-999-9999
Mable Boban	m.boban@csus.edu	609-598-2651

Catalog Title:

Pharmacology for Physical Therapists

Class Schedule Title:

Pharmacology for PT

Academic Group: (College)

HHS - Health & Human Services

Academic Organization: (Department)

Physical Therapy

Will this course be offered through the College of Continuing Education (CCE)?

No

Catalog Year Effective:

Spring 2024 (2023/2024 Catalog)

Subject Area: (prefix)

PT - Physical Therapy

Catalog Number: (course number)

632

Course ID: (For administrative use only.)

201780

Units:

2

Is the only purpose of this change to update the term typically offered or the enforcement of existing prerequisites at registration?

No

In what term(s) will this course typically be offered?

Summer Only

Does this course require a room for its final exam?

Yes, final exam requires a room

This course complies with the credit hour policy:

Yes

Justification for course proposal:

Requesting course to move to summer from spring to adhere to first year students who will need the units to qualify for financial aid. It will also help with adhering to student workload in the spring. This course was a summer course in 2023 and was moved to spring 2024. It has been identified that the course should remain in summer. The department would like the course to be offered summer 24 and not spring 24.

Course Description: (Not to exceed 80 words and language should conform to catalog copy.)

This course provides a study of pharmacological agents and their effects on the musculoskeletal, neuromuscular, cardiopulmonary and integumentary systems. Particular emphasis is placed on recognition of adverse reactions and side effects of various drugs as they affect patients receiving physical therapy.

Are one or more field trips required with this course?

No

Fee Course?

No

Is this course designated as Service Learning?

No

Is this course designated as Curricular Community Engaged Learning?

No

Does this course require safety training?

No

Does this course require personal protective equipment (PPE)?

No

Course Note: (Note must be a single sentence; do not include field trip or fee course notations.)

Open to Physical Therapy Majors only

Does this course have prerequisites?

Yes

Prerequisite:

BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 630.

Prerequisites Enforced at Registration?

Yes

Does this course have corequisites?

Yes

Corequisite:

PT 634, PT 638.

Corequisites Enforced at Registration?

Yes

Graded:

Letter

Approval required for enrollment?

No Approval Required

Course Component(s) and Classification(s):

Lecture

Lecture Classification

CS#02 - Lecture/Discussion (K-factor=1WTU per unit)

Lecture Units

2

Is this a paired course?

No

Is this course crosslisted?

No

Can this course be repeated for credit?

No

Can the course be taken for credit more than once during the same term?

No

Description of the Expected Learning Outcomes and Assessment Strategies:

List the Expected Learning Outcomes and their accompanying Assessment Strategies (e.g., portfolios, examinations, performances, pre-and post-tests, conferences with students, student papers). Click the plus sign to add a new row.

	Expected Learning Outcome	Assessment Strategies
1	At the conclusion of this course, the student is expected to:	Exam 1, 2, 3
2	Goal 1.0: Demonstrate Professional Physical Therapist Effectiveness	Exam 1, 2, 3
3	1.1 Compare and contrast normal biological, physiological, and psychological mechanisms of the human body with pathophysiological factors that lead to impaired body functions and structure.	Exam 1, 2, 3
4	1.1.4 Analyze the effects of pharmacological agents on human function.	Exam 1, 2, 3
5	1.1.4.1 Describe the primary pharmacokinetic factors involved in drug therapy (drug administration, absorption, distribution, interaction, and elimination).	Exam 1, 2, 3
6	1.1.4.2 Draw a dose response curve for drugs, and indicate the threshold dose and ceiling dose.	Exam 1, 2, 3
7	1.1.4.3 Describe the primary methods of internal drug administration (injection, inhalation, topical, transdermal, others).	Exam 1, 2, 3
8	1.1.4.4 Describe how drug absorption and distribution can be affected by specific physical therapy interventions such as thermal agents, massage, and exercise.	Exam 1, 2, 3

9	1.1.4.5 List the primary organs and tissues in the body that are responsible for drug metabolism.	Exam 1, 2, 3
10	1.1.4.6 List the factors that can alter normal pharmacokinetics (age, disease, drugs, genetics, nutrition, chemicals, body composition, and gender).	Exam 1, 2, 3
11	1.1.4.7 Explain how altered pharmacokinetics may lead to a decrease or an increase in drug effects, and how these effects may be recognized in patients/clients receiving physical therapy.	Exam 1, 2, 3
12	1.1.4.8 Recognize and appraise conditions reflecting critical (life-threatening) drug interactions in patients/clients receiving physical therapy.	Exam 1, 2, 3
13	1.1.4.9 Know and understand the mechanism of actions of various drugs commonly used by patients receiving physical therapy.	Exam 1, 2, 3
14	1.1.4.10 Identify and describe, in writing, general principals of pharmacology as they relate to clinical decision making in the physical therapy management of a patient.	Exam 1, 2, 3 Student presentation
15	1.1.4.11 Identify in writing the possible effects of various drug actions on physical therapy outcomes.	Exam 1, 2, 3 Student presentation
16	1.1.4.12 Determine the physical therapy needs of any individual seeking services.	Exam 1, 2, 3
17	1.2.2 Review pertinent medical records and conduct a comprehensive patient interview.	Exam 1, 2, 3
18	1.2.2.1 Know and understand the mechanism of actions of various drugs commonly used by patients receiving physical therapy	Exam 1, 2, 3 Student presentation
19	1.3 Develop a plan of care based on the best available evidence and that considers the patient's personal and environmental factors	Exam 1, 2, 3
20	1.3.8 Progress the plan of care by making ongoing adjustments to interventions.	Exam 1, 2, 3
21	1.3.8.1 Monitor and adjust the patient's plan of care in response to interpretation of pharmacological principles	Exam 1, 2, 3
22	1.3.8.2 Explain how altered pharmacokinetics may lead to a decrease or an increase in drug effects, and how these effects may be recognized in patients/clients receiving physical therapy.	Exam 1, 2, 3
23	1.3.8.3 Recognize and appraise conditions reflecting critical (life-threatening) drug interactions in patients/clients receiving physical therapy.	Exam 1, 2, 3 Student presentation
24	1.3.8.4 Know and understand the mechanism of actions of various drugs commonly used by patients receiving physical therapy.	Exam 1, 2, 3 Student presentation
25	1.3.8.5 Identify and describe, in writing, general principals of pharmacology as they relate to clinical decision making in the physical therapy management of a patient.	Exam 1, 2, 3 Student presentation
26	1.3.8.6 Identify in writing the possible effects of various drug actions on physical therapy outcomes.	Exam 1, 2, 3 Student presentation
27	1.3.8.7 Monitor and adjust the patient's plan of care in response to interpretation of pharmacological principles.	Exam 1, 2, 3
28	Goal 3.0: Demonstrate professional behaviors by reflecting on personal and professional development, and by integrating cultural, ethnic, age, economic, and psychosocial considerations in the communication and delivery of clinical services.	Exam 1, 2, 3 Student presentation
29	3.1 Recognize cultural, ethnic, age, economic, and psychosocial differences and apply a humanistic and holistic approach to the delivery of a clinical service.	Exam 1, 2, 3 Student presentation
30	3.1.1 Practice physical therapy demonstrating cultural competence with all	Exam 1, 2, 3 Student presentation
31	3.1.2 Work effectively with challenging patients.	Exam 1, 2, 3

32	3.1.3 Respect personal space of patients/clients and others.	Exam 1, 2, 3
33	3.1.4 Demonstrate behaviors that are non-judgmental with regards to	Exam 1, 2, 3
34	3.1.5 Respect roles of support staff and delegate appropriately.	Exam 1, 2, 3
35	3.2 Communicate effectively for varied audiences and purposes.	Exam 1, 2, 3 Student presentation
36	3.2.1 Demonstrate effective interpersonal (verbal, nonverbal, electronic) communication skills considering the diversity of populations and environments.	Exam 1, 2, 3 Student presentation
37	3.2.2 Facilitate therapeutic communication and interpersonal skills.	Exam 1, 2, 3
38	3.2.3 Discuss difficult issues with sensitivity and objectivity.	Student presentation
39	Respect roles of support staff and communicate appropriately.	Exam 1, 2, 3
40	3.3 Participate in professional activities that serve the community and advance the profession of physical therapy.	Exam 1, 2, 3
41	3.3.1 Recognize the importance of participation in professional association	Exam 1, 2, 3 Student presentation
42	3.3.2 Recognize one's role as a member and leader of the health care team.	Exam 1, 2, 3 Student presentation
43	3.4 Recognize the need for personal and professional development.	Exam 1, 2, 3
44	3.4.1 Participate in self-assessment to improve clinical and professional performance.	Exam 1, 2, 3 Student presentation
45	3.4.2 Welcome and seek new learning opportunities.	Exam 1, 2, 3 Student presentation
46	3.4.3 Assume responsibility for professional lifelong learning.	Exam 1, 2, 3 Student presentation
47	3.4.4 Accept responsibility and demonstrate accountability for professional decisions.	Exam 1, 2, 3
48	3.4.5 Recognize own biases and suspend judgments based on biases.	Exam 1, 2, 3 Student presentation
49	3.5 Demonstrate entry level generic abilities, including:	Exam 1, 2, 3 Student presentation
50	3.5.1 Professional accountability and commitment to learning.	Exam 1, 2, 3
51	3.5.2 Recognition of one's own limitations.	Exam 1, 2, 3 Student presentation
52	3.5.3 Effective use of constructive feedback.	Student presentation
53	3.5.4 Effective use of time and resources.	Student presentation
54	3.5.5 Demonstrate integrity, compassion, and courage in all interactions.	Exam 1, 2, 3 Student presentation
55	Goal 4.0: Practice in an ethical and legal manner through the consistent integration of	Exam 1, 2, 3 Student presentation
56	sound decision-making with respect to established ethical, legal and professional standards.	Exam 1, 2, 3 Student presentation
57	4.1 Practice physical therapy in a manner consistent with established legal and professional standards	Exam 1, 2, 3
58	4.1.1 Demonstrate awareness of and adherence to state licensure regulations.	Exam 1, 2, 3
59	4.1.2 Practice within all applicable regulatory and legal requirements.	Exam 1, 2, 3
60	4.1.3 Demonstrate the ability to search and find information about laws and regulations pertaining to physical therapy practice from state and federal electronic sources.	Exam 1, 2, 3 Student presentation
61	4.1.4 Demonstrate accountability by adhering to laws and regulations governing	Exam 1, 2, 3 Student presentation

62	4.2 Practice in a manner consistent with the professional code of ethics	Exam 1, 2, 3
63	4.2.1 Demonstrate knowledge and application of ethical decision-making.	Exam 1, 2, 3
64	4.2.2 Treat patients/clients within scope of practice, expertise and experience.	Exam 1, 2, 3 Student presentation
65	Goal 5.0: Demonstrate the critical evaluation, interpretation and application of the scientific	Exam 1, 2, 3 Student presentation
66	and professional literature to inform independent judgments and clinical decision-making,	Exam 1, 2, 3 Student presentation
67	research and education.	Exam 1, 2, 3 Student presentation
68	5.1 Apply basic principles of statistics and research methodologies within the practice of	Exam 1, 2, 3 Student presentation
69	5.1.1 Formulate and reevaluate positions based on the best available evidence.	Exam 1, 2, 3 Student presentation
70	5.1.2 Evaluate the efficacy and efficiency of physical therapy procedural interventions.	Exam 1, 2, 3 Student presentation
71	5.1.3 Critically evaluate and interpret professional literature as it pertains to practice, research, and education	Exam 1, 2, 3 Student presentation
72	5.1.4 Utilize contemporary technology consistently to access evidence.	Exam 1, 2, 3 Student presentation
73	5.2 Contribute to the body of knowledge of physical therapy.	Exam 1, 2, 3 Student presentation
74	5.2.1 Participate in, plan, and/or conduct clinical, basic, or applied research.	Exam 1, 2, 3 Student presentation
75	5.2.2 Disseminate the results of scholarly activities.	Exam 1, 2, 3 Student presentation

Attach a list of the required/recommended course readings and activities:

PT 632_Syllabus - 2023.pdf

Is this course required in a degree program (major, minor, graduate degree, certificate?)

Yes

Has a corresponding Program Change been submitted to Workflow?

No

Identify the program(s) in which this course is required:**Programs:**

Doctor of Physical Therapy

Does the proposed change or addition cause a significant increase in the use of College or University resources (lab room, computer)?

No

Will there be any departments affected by this proposed course?

No

I/we as the author(s) of this course proposal agree to provide a new or updated accessibility checklist to the Dean's office prior to the semester when this course is taught utilizing the changes proposed here.

I/we agree

University Learning Goals**Doctorate Learning Goal(s):**

Disciplinary knowledge
 Critical thinking/analysis
 Information literacy
 Professionalism

Intercultural/Global perspectives

Is this course required as part of a teaching credential program, a single subject, or multiple subject waiver program (e.g., Liberal Studies, Biology) or other school personnel preparation program (e.g., School of Nursing)?

No

Is this a Graduate Writing Intensive (GWI) course?

No

Key: 4082