



STARK STATE COLLEGE

GENERAL SYLLABUS

Course Information

Course Name: Intro to Orthopedics
Course Number: PTA120

Required Materials

Textbook(s): Houglum, P. A., & Bertoti, D. B. (2012). *Brunnstrom's clinical kinesiology* (6th ed.). F.A. Davis
 Lippert, L. S. (2023). *Clinical kinesiology and anatomy* (7th ed.). F.A. Davis.;
 Lab Manual Handout: Purchased in Stark State Bookstore

Required Readings: See below

Additional Materials: None

Course Outline/Calendar

The date of coverage and order of coverage may be modified based on the faculty member and events beyond the control of faculty members that interfere with class times and teaching.

| Week | Chapter/Topic/Lab |
|------|---|
| 1 | Review Joints Biomechanics Brunnstrom pp. 2-25 (Basic Concepts in Kinesiology: Kinematics) Lippert Ch. 1 Basic Information), 3 (Skeletal System), 4 (Arthrokinematics), 8 (Head and Temporomandibular Joint) Lecture Notes A, B |
| 2 | Biomechanics Brunnstrom pp. 29-47,52-65, 69-73, 77 (Basic Concepts in Kinesiology: Kinematics) Lippert Ch. 4 (Arthrokinematics), 8 (Head and Lecture Notes B |
| 3 | Stages of Acuity & Review of Inflammation Lippert Ch. 2 (Basic Biomechanics) Lecture Notes C |
| 4 | Neurological Control of Movement: Upper Extremity Lippert pp. 63-74 (Nervous System) Lecture Notes D Shoulder |

| Week | Chapter/Topic/Lab |
|------|--|
| | Lippert Ch. 12 (Shoulder Girdle), 13 (Shoulder Joint) Brunnstrom pp. 161-185, 190-191, 195-197, 200-205 (Shoulder Complex) Lecture Notes E |
| 5 | Shoulder Lippert Ch. 12 (Shoulder Girdle), 13 (Shoulder Joint) Brunnstrom pp. 161-185, 190-191, 195-197, 200-205 (Shoulder Complex) Lecture Notes E |
| 6 | None |
| 7 | Elbow/Forearm, Wrist/Hand Lippert Ch. 14 (Elbow and Forearm) Brunnstrom pp. 218-224, 228-232, 239-244 (Elbow and Forearm Complex), 255-266, 247-250, 255-266, 274-280, 285-295, 299-303 (Wrist and Hand) Lecture Notes F, G |
| 8 | Pelvis/Hip Lippert Ch. 17 (Hip Joint) Brunnstrom pp. 371-385, 388-391, 400-417 (Pelvis and Hip) Lecture Notes H |
| 9 | Knee Lippert Ch. 18 (Knee Joint) Brunnstrom pp. 424-430, 434-442, 449-459 (Knee) Lecture Notes I |
| 10 | Knee Lippert Ch. 18 (Knee Joint) Brunnstrom pp. 424-430, 434-442, 449-459 (Knee) Lecture Notes I |
| 11 | Ankle Lippert Ch. 19 (Leg, Ankle and Foot) Brunnstrom pp. 475-483, 489-497, 501-511, 516-525 (Ankle and Foot) Lecture Notes J |
| 12 | Trunk and Posture Lippert Ch. 20 (Posture) Brunnstrom pp. 315-330, 335-336, 341-343, 347, 351-352, 355-359(Head, Neck, and Trunk) Lecture Notes K |
| 13 | Neurological Control of Movement: Lower Extremity Lippert pp. 65-70 (Nervous System) Lecture Notes L |
| 14 | Gait Lippert Ch. 21 (Gait) Lecture Notes M |
| 15 | Gait Lippert Ch. 21 (Gait) Lecture Notes N & O |
| 16 | Appointments with students as needed. |

