

Bossier Parish Community College
Master Syllabus

Course Prefix and Number: OCTA 206

Credit Hours: 2

Course Title: Therapeutic Interventions I

Course Prerequisite: Enrollment in the OCTA program courses is limited to those students who have been selected and admitted to the professional phase of the program. Program courses are sequenced by semester and must be taken as a group each semester per program requirements and policies.

Textbooks/ Learning Resources:

Required Textbooks:

Hall, Cheryl; Occupational Therapy Toolkit; 7th edition

Early, Mary Beth; Physical Dysfunction Practice Skills for the Occupational Therapy Assistant; 3rd Edition (also required for OCTA 203)

Supplemental Textbook:

Pendleton, Heidi McHugh and Schultz-Krohn, Winifred; Pedretti's Occupational Therapy Practice Skills for Physical Dysfunction, 7th Edition

Course Description:

This course will provide knowledge in patient care, body mechanics, therapeutic modalities, and orthotics that will be used to increase the individual's participation in areas of occupation across the life span. Topics include assessment of vital signs, patient equipment management, transfers and positioning, range of motion, manual muscle testing, assistive technology, functional ambulation and splinting. Skills such as observation, activity analysis, modalities and their therapeutic value will be introduced.

Relationship to Curriculum Design:

This course is designed to apply safe and proper handling techniques in a variety of areas of patient care and utilize problem solving and critical thinking skills to implement the use of assistive technology, modalities and orthotics to increase occupational independence and performance.

Learning Outcomes:

At the end of this course the student will be able to:

- A. Demonstrate correct procedures in assessing and reporting patient vital signs, handling specialized medical equipment, safety techniques and infection control.
- B. Utilize knowledge of common adaptive equipment in the assessment and intervention processes of functional ambulation.
- C. Demonstrate safe and proper handling techniques for self and patients during transfers, repositioning, maneuvering wheelchair, functional ambulation, and community mobility.
- D. Explain the role of the OTA in using appropriate assistive technology as an integral part of occupational therapy intervention.
- E. Demonstrate an understanding of the use of physical agent modalities in occupational therapy intervention.

- F. Demonstrate an understanding of the purposes and principles of making a splint as well as the indications and contraindications.
- G. *Demonstrate competency in assessing and calculating range of motion and muscle strength*
- H. Demonstrate an understanding of the role of health promotion, health literacy, and support for the quality of life, well-being and occupation for individuals to promote mental health, safety and prevention of injury and disease.

Course Objectives

To achieve the learning outcomes, the student will:

1. Demonstrate proper techniques for assessing and reporting patient vital signs. **A**
2. Identify standard precautions in preventing accidents and disease in the clinic. **A**
3. Demonstrate proper techniques of hand washing and handling specialized medical equipment. **A**
4. Describe guidelines for handling various emergency situations **A,C**
5. Identify and demonstrate safety issues in functional ambulation. **A,C**
6. Explain the need for and use of compensatory strategies when desired life tasks cannot be performed. **(B.2.10) B,D**
7. Identify the components necessary to perform a wheelchair evaluation. **B,C**
8. Identify wheelchair safety considerations. **B,C**
9. Demonstrate principles of proper body mechanics and positioning necessary in performing various transfer techniques. **B,C**
10. Use sound judgment in regard to safety of self and others and adhere to safety regulations throughout the OT process as appropriate to the setting and scope of practice. **(B.2.8) A,C**
11. Identify considerations necessary to determine the appropriate transfer method based on the client's clinical presentation. **B,C**
12. Recognize the use of superficial thermal and mechanical modalities as a preparatory measure to improve occupational performance. **(B.5.15) E**
13. Identify important landmarks in the anatomy of the hand including arches and other structural elements that contribute to hand function. **F**
14. Describe the three major purposes and goals of splints and when they should be employed. **F**
15. Explain basic pattern-making, fabrication, and strapping principles and techniques. **F**
16. Recognize indications for soft splinting, static splinting and dynamic splinting. **F**
17. Promote the use of appropriate home and community programming to support performance in the client's natural environment and participation in all contexts relevant to the client. **(B.5.17) B,D**
18. Provide fabrication, application, fitting and training in orthotic devices used to enhance occupational performance and training in the use of prosthetic devices. **(B.5.11) F**
19. Provide training in techniques to enhance functional mobility, including physical transfers, wheelchair management, and mobility devices. **(B.5.12) B,C,D**
20. Provide training in techniques to enhance community mobility, including public transportation, and community access and issues related to driver rehabilitation. **(B.5.13) B,C**

21. Describe the role of the OTA in splint fabrication, patient education, splint monitoring and documentation. **F**
22. Discuss the functional motion assessment process **G**
23. Discuss and demonstrate the role of the OTA in joint measurement and general principles of joint measurements **G**
24. Describe the role of the OTA in evaluation muscle strength and identify purposes of muscle strength testing **G**
25. Describe the relationship between joint ROM and muscle testing **G**
26. Demonstrate muscle testing procedures for each of the upper extremity muscle groups, including positioning, palpation, observation and application of resistance **G**
27. Describe the role of the COTA in wellness and health promotion **H**
28. Articulate the importance of balancing areas of occupation with the achievement of health and wellness for the clients. **(B.2.4) H**
29. Describe models of health promotion practice **H**
30. Explain the role of occupation in the promotion of health and the prevention of disease and disability for the individual, family, and society. **(B.2.5) H**
31. Demonstrate an understanding of health literacy and the ability to educate and train the client, caregiver, and family and significant others to facilitate skills in areas of occupation as well as prevention, health maintenance, health promotion, and safety. **(B.5.18) H**
32. Express support for the quality of life, well-being, and occupation of the individual, group or population to promote physical and mental health and prevention of injury and disease considering the context. **(B.2.9) H**
33. Demonstrate understanding of assistive technology and contrast it with rehabilitative technologies. Identify basic AT services, devices, and their funding source.
34. Articulate principles of and demonstrate strategies with assistive technologies and devices used to enhance occupational performance and foster participation and well-being. **(B.5.10 &1.8) B,C**

Topical Outline

I. Health Promotion

- A. definition
- B. Roles and responsibilities
- C. Theory and models
- D. Intervention strategies

II. Patient Care

- A. Vital signs
 1. Pulse oximetry
 2. Blood pressure
 3. Heart rate
 4. Respiration
- B. Infection control
 1. Universal precautions

2. Hand washing
 3. Isolation
 - C. Incidents and emergencies
 1. falls
 2. Burns
 3. Bleeding
 4. Shock
 5. Seizures
 6. Insulin related illnesses
 7. Respiratory distress
 8. Choking and cardiac distress
 - D. Patient Equipment management
 1. Hospital beds
 2. Feeding devices
 3. Ventilators
 4. monitors
 5. Catheters
 6. Compression garments
- III. Assessment of Joint Range of Motion
- A. Role of the OTA in Joint Measurement
 - B. General Principles of Joint Measurement
 - C. Method of Joint Measurement
 - D. The Goniometer
 - E. Procedure for Joint Measurement
 - F. Procedures for Goniometric Measurement and testing of selected upper extremity motions
 - G. Screening for Functional Range of Motion
- IV. Assessment of Muscle Strength
- A. Role of the OTA in evaluating Muscle strength
 - B. General purposes of muscle strength measurement
 - C. Methods of Evaluation
 - D. Relationship between Joint ROM and Muscle Testing
 - E. Factors influencing muscle function
 - F. Muscle grades
 - G. Functional muscle testing
- V. Transfers/Body Mechanics
- A. stand pivot
 - B. sliding board
 - C. bent pivot
 - D. dependent
- VI. Assistive Technology and Adaptive Equipment
- a. Definition
 - b. Identification
 - c. Funding
- VII. Mobility
- A. Basics of Ambulation
 1. Orthotics

2. Walking aids
 - B. Functional Ambulation
 1. Kitchen ambulation
 2. Bathroom ambulation
 3. Home management ambulation
 - C. Community Mobility
 1. Driving
 2. Community access
 - D. Wheelchair assessment
 1. Wheelchair ordering considerations
 2. Wheelchair selection
 3. Wheelchair measurement
 4. Wheelchair safety
- VIII. Orthotics
- A. Hand Splinting
 1. Anatomical structures of hand
 2. Prehension and grasp patterns
 3. Mechanics of hand and principles of splinting
 4. Splint classifications
 5. Indications and contraindications of splinting
 6. Fabrication
 - B. Suspension arm devices and mobile arm supports
- IX. Therapeutic Occupations and Modalities
- A. Purposeful activity
 - B. Activity analysis
 - C. Activity selection
 - D. Therapeutic exercise
 - E. Physical Agent modalities
 1. Thermal modalities
 2. Electrical modalities

Course Evaluation:

The student's grade for this course will be based on:

- Written Exams which are 60% of final grade
- Lab Practicals which are 30% of final grade
 - Lab Practical test 25% of final grade
 - Final Comprehensive Case based learning practical 5%
- Lab Activities, assignments, active participation, professional behavior and attendance which comprise 10% of final grade.

Instructional methods include presentation, case studies, small group activities, video presentation, role play, and skills training and demonstration.

Course Requirements: In order to earn a grade of “C” or higher, the student must earn 70% of the total possible points for the courses and achieve all of the course requirements listed below:

- minimum of 75% average on any lab practical skills tests
- satisfactory completion of all course assignments (minimum score of 75%)

Student Expectations:

- a. Course faculty will determine if class absence is excused. Unexcused absences will result in a zero (0) for the exam, assignment, or class participation due on the date of absence.
- b. **One** tardy will be excused per semester. All other tardies will constitute a decrease of one point each in final grade.
- c. Make-up work or exams for excused absences will be given at the discretion and convenience of the instructor.
- d. No late assignments will be accepted. If an assignment is not submitted by due date and time, a grade of zero will be given.
- e. All written work will be typed and produced according to the *APA Publication Manual, 6th edition* unless otherwise indicated in assignment directions.
- f. **Active** participation during class time, community outings, fieldwork experiences, and other professional experiences is mandatory. Passive note taking and silent observation is not considered active participation.
- g. Professional development is an integral part of becoming an Occupational Therapy Assistant. Students are expected to accept constructive criticism from faculty and peers and modify behavior accordingly.
- h. **ALL** appointment requests with faculty must be made in writing via email.

Course Grading Scale:

- A- 90% or more of total possible points; and minimum of 75% average on laboratory practical tests; satisfactory completion of lab assignments and presentations and participation
- B- 80% or more of total possible points; and minimum of 75% average on laboratory practical tests; satisfactory completion of lab assignments, presentations and participation
- C- 70% or more of total possible points; and minimum of 75% average on laboratory practical tests; satisfactory completion of lab assignments, presentations and participation
- D- 60% or more of total possible points; and minimum of 75% average on laboratory practical tests; satisfactory completion of lab assignments, presentations and participation
- F- Less than 60% of total possible points; or less than 75% average on laboratory practical tests; or failure to satisfactorily complete or present lab assignments, presentations and participation

Students must have a “C” or better and a semester GPA average of 2.5 or better to receive credit toward the OTA program requirements and to move to the next level of coursework.

** Lab competencies are scored differently than written exams. All mistakes result in a point deduction for grading purposes. However, failure to demonstrate fundamental competency, safety or professionalism in the execution of the skill as evaluated by the course instructor(s) will result in an immediate failing score. The student will then be required to re-test on the skill preceding fall/spring clinical practice experiences with the specific scheduling and format for such being at the discretion of the primary course instructor but the responsibility of the student. The student will be given up to two additional testing attempts to demonstrate competency. If unable to safely, competently and professionally execute the skill on subsequent attempts, the student will be given a failing grade for the course and will not continue in the clinical program. The remediation scores will not replace the first attempt test score.

The syllabus is comprehensive and covers a lot of detail. Read it carefully and ask questions about anything you do not understand. The syllabus is subject to change, but all changes will be announced as far in advance as possible.

Attendance Policy: The college attendance policy, which is available at <http://www.bpcc.edu/catalog/current/academicpolicies.html>, allows that “more restrictive attendance requirements may apply to some specialized classes such as laboratory, activity, and clinical courses because of the nature of those courses.” The attendance policy of the OTA program is described in the OTA Clinical Handbook.

Nondiscrimination Statement

Bossier Parish Community College does not discriminate on the basis of race, color, national origin, gender, age, religion, qualified disability, marital status, veteran's status, or sexual orientation in admission to its programs, services, or activities, in access to them, in treatment of individuals, or in any aspect of its operations. Bossier Parish Community College does not discriminate in its hiring or employment practices.

COORDINATOR FOR SECTION 504 AND ADA

Angie Cao, Student and Disability Services Specialist

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Equity/Compliance Coordinator

Teri Bashara, Director of Human Resources

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Reviewed by M. Allison 4/19

