

BOSTON REED COLLEGE®
Allied Health Training Programs
Official Course Outline

Orthopedic Technician

Goals and Purpose: Upon successful completion of course, the student will receive a certificate of completion from Boston Reed College. This program was designed to meet the training recommendations of the National Association of Orthopedic Technologists (NAOT) and to provide, thorough didactic and clinical instruction, the clinical skills necessary to care for orthopedic patients in an acute and clinic setting. Graduates will be eligible to take the optional examination for Certification of Orthopaedic Technologists (OTC) offered by the National Board for Certification of Orthopaedic Technologists after one year full-time employment specific to Orthopaedic Technology.

Outcomes and Objectives

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

1. Identify parts of the musculoskeletal and nervous systems.
2. Describe the basic function of the musculoskeletal and nervous systems.
3. Utilize medical terminology in written and spoken communications.
4. Define medical terminology found in medical records.
5. Utilize proper aseptic technique.
6. Relate the process of bone healing.
7. Outline types of x-rays used in fracture diagnosis.
8. Demonstrate the application of casts, splints and braces.
9. Identify complications of fractures.
10. Document patient care provided.

Instructional Units/Hours of Instruction:

<i>Topic.....</i>	<i>Hours</i>
1. Study Skills	1
2. Orthopedic Anatomy Introduction.....	2
3. Basic Science of Anatomy	2
4. Arm Anatomy	2
5. Foot/Ankle Anatomy	4
6. Forearm Anatomy	6
7. Hand Anatomy	4
8. Leg/Knee Anatomy	6
9. Pelvis Anatomy	4
10. Shoulder Anatomy	2
11. Spine Anatomy.....	4
12. Thigh/Hip Anatomy	4
13. Basic Science in Orthopedics.....	4
14. Physical Examination of the Elbow	2
15. Physical Examination of the Foot and Ankle	4
16. Physical Examination of the Hip and Pelvis.....	4
17. Physical Examination of the Knee	2
18. Physical Examination of the Lumbar Spine Injuries to the Face, Head, and Spine	2
19. Physical Examination of the Shoulder	2

20. Physical Examination of the Wrist and Hand	4
21. Examination of Gait.....	4
22. Disorders of the Ankle and Foot.....	4
23. Disorders of the Hip and Knee.....	4
24. Disorders of the Shoulder and Elbow	4
25. Disorders of the Spine.....	2
26. Disorders of the Wrist and Hand	6
27. Injuries to the Lower Limb	6
28. Injuries to the Trunk.....	2
29. Injuries to the Upper Limb.....	6
30. Hand Injuries.....	4
31. Sports Injuries	6
32. Methods of Managing Trauma.....	4
33. Application of Casts, Splints, Braces, and Traction	65

Total Hours – 182

Instructional Strategies:

- Lecture
- Demonstration
- Laboratory Techniques
- 1 on 1 Instruction
- Small Group Discussions
- Large Group Discussion
- Independent Research
- Handouts
- Individualized Study
- Multimedia

Methods of Evaluation:

- Assignments
- Discussions
- Demonstration
- Handouts
- Anatomical Models
- Multimedia
- Skills Check-off
- Testing and Quizzes
- Midterm & Final

Course Repetition:

If the student does not achieve at least 80 percent in the course he or she should repeat the course until that objective has been achieved.

For Adult Education Centers as appropriate:

Course Title: Orthopedic Technician

CDE #: 078.664 - 010

Approvals: Board of Education ___/___/___

CDE ___/___/___