



مركز الاعتماد  
و ضمان الجودة  
ACCREDITATION & QUALITY ASSURANCE CENTER



**The University of Jordan**

**Accreditation & Quality Assurance Center**

## **Course Syllabus**

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**Course Name: special  
surgery/ Orthopaedics**

1	Course title	Special Surgery/ orthopaedics
2	Course number	0506502
3	Credit hours (theory, practical)	4 out of 10
	Contact hours (theory, practical)	4
4	Prerequisites/corequisites	0500402/0508414/0500403/0511401/0507403/0500491
5	Programtitle	Doctor of Medicine
6	Programcode	N/A
7	Awarding institution	The University of Jordan
8	Faculty	Medicine
9	Department	Special surgery
10	Level of course	Bachelor (MD)
11	Year of study andsemester(s)	5 <sup>th</sup> year
12	Final Qualification	MD
13	Other department(s) involved in teaching the course	None
14	Language of Instruction	English
15	Date of production/revision	25 <sup>th</sup> -June-2016/ 1 <sup>st</sup> -January-2017

#### 16. Course Coordinator:

**Name:** Assistant Prof. Mohammad Q. Hamdan

**Office Number:** Faculty of Medicine / Jordan University hospital / Special Surgery office

**Office Phone:**2727/0799746439

**E-mail**[Moh.Hamdan@ju.edu.jo](mailto:Moh.Hamdan@ju.edu.jo)

**Office hours:** Monday 9-11 am and through Moodle e-learning.

#### 17.Other instructors:

أ.د. شاهر الحديدي  
 د. جهاد العجلوني  
 د. عمر سمارة  
 د. فادي الحديدي  
 د. أوس خنفر  
 د. محمد حمدان  
 د. ياسم حداد  
 د. محمود عباينة  
 ا.د. زياد حوامدة  
 ا.د. يوسف سرحان

**18. Course Description:**

*This course covers a wide variety of common Orthopaedics and traumatology topics, Students learn about the basics, etiology, pathogenesis, signs and symptoms of different Orthopaedics and traumatology conditions and to be able to integrate the clinical, laboratory and radiological means to reach for diagnosis of common ones, in addition to ways of their medical and surgical treatment including physiotherapy and rehabilitation for a period of four weeks of clinical training including lectures, seminars and group discussions.*

1. 19. Course aims and outcomes:

2.

A- Aims:

For the student to be able to perform a focused history and physical examination of the patient with a musculoskeletal complaint, to be able to identify the basic orthopaedic and trauma signs on regular X-rays, and to be able to diagnose and initially treat orthopaedic emergencies.

**B- Intended Learning Outcomes (ILOs):** Upon successful completion of this course students will be able to...

1. Demonstrate the ability to take a history from the orthopaedic patient

2. Carry out a thorough physical examination of the orthopaedic patient

3. Recall the orthopaedic histology

4. Recognize long bone components

5. Describe long bone fractures

6. Describe X-rays of fractures and common orthopaedic pathologies

7. Identify fractures mechanisms

8. To be exposed to the anatomy, history, physical examination, diagnostic and treatment methods of the osteomyelitis and septic arthritis

9. Grade and approach open fractures

10. Outline the differences and major characteristics of benign and malignant bone lesions and tumors

11. To know basics, stages, types and complications of bone healing

12. To be exposed to the anatomy, history, physical examination, diagnostic and treatment methods of the knee disorders

13. To be exposed to the anatomy, history, physical examination, diagnostic and treatment methods of the sports injuries

14. To be exposed to the anatomy, history, physical examination, diagnostic and treatment methods of the pediatric fractures

15. To be exposed to the anatomy, history, physical examination, diagnostic and treatment methods of the pediatric hip disorders

16. To be exposed to the anatomy, history, physical examination, diagnostic and treatment methods of the pediatric foot disorders

17. To know Principles of fractures and trauma

18. To be exposed to the anatomy, history, physical examination, diagnostic and treatment methods of the osteoarthritis and arthroplasty

19. To be exposed to the anatomy, history, physical examination, diagnostic and treatment methods of the spinal deformities

20. To be exposed to the anatomy, history, physical examination, diagnostic and treatment methods of the low back pain and spinal disorders

21. To be exposed to the anatomy, history, physical examination, diagnostic and treatment methods of the spinal injuries
22. To be exposed to the anatomy, history, physical examination, diagnostic and treatment methods of the shoulder disorders
23. To know the principles of rehabilitation in orthopaedics
24. To be exposed to the anatomy, history, physical examination, diagnostic and treatment methods of the peripheral nerve injuries
25. To be exposed to the anatomy, history, physical examination, diagnostic and treatment methods of the upper limb fractures
26. To be exposed to the anatomy, history, physical examination, diagnostic and treatment methods of the lower limb fractures
27. To be exposed to the anatomy, history, physical examination, diagnostic and treatment methods of the hand infections
28. To be exposed to the anatomy, history, physical examination, diagnostic and treatment methods of the osteoporosis
29. To be able to differentiate between normal and abnormal gait.

## 20. Topic Outline and Schedule:

Topic	Week	Instructor	Achieved ILOs	Evaluation Methods	Reference
Introduction to orthopedic	1	أ.د. شاهر الحديدي	<ul style="list-style-type: none"> <li>a. Review of orthopaedic histology</li> <li>b. Review of long bone components</li> <li>c. Description of long bone fractures</li> <li>d. Identification of fractures mechanisms</li> <li>e. Know how to comment on X-rays</li> <li>f. Review of physical examination of musculoskeletal system</li> </ul>	22 (1, 2)	25 (A, B) and Moodle
Principles of fractures and trauma	1	د. جهاد العجلوني	<ul style="list-style-type: none"> <li>a. Illustrate the approach to multiply injured patients.</li> <li>b. Revision of anatomy of musculoskeletal system.</li> <li>c. Explain fracture classification for students and establish the importance of soft tissue injuries.</li> <li>d. Allow the students to describe fracture shape, site, and deformity and put objectives for treatment.</li> </ul>	22 (1, 2)	25 (A, B) and Moodle
Bone healing	1	أ.د. شاهر الحديدي	<ul style="list-style-type: none"> <li>a. Types of bone.</li> <li>b. Bone anatomy.</li> <li>c. Bone components.</li> <li>d. Ways of bone formation.</li> <li>e. Stages of bone healing</li> <li>f. Modes of bone healing</li> <li>g. Variables that Influence Fracture Healing</li> <li>h. Complications of Fracture Healing</li> </ul>	22 (1, 2)	25 (A, B) and Moodle

Hip Examination	1	د. ياسم حداد	Carry out a thorough hip physical examination according to look, feel, move and hip special tests system.	22 (1, 2)	25 (A, B) and Moodle
Clavicular and scapular fractures	1	أ.د. شاهر الحديدي	<ul style="list-style-type: none"> <li>a. List the types and mechanism of different fractures in the clavicle and the scapula</li> <li>b. Diagnose the clavicular and scapular fractures, clinical &amp; radiological evaluation</li> <li>c. Identify the principles of management of different clavicular and scapular fractures</li> </ul>	22 (1, 2)	25 (A, B) and Moodle
Bone infection & septic arthritis	1	د. اوس خنفر	<ul style="list-style-type: none"> <li>a. Definition</li> <li>b. Pathophysiology and presentation</li> <li>c. Most common pathogens</li> <li>d. Radiological changes</li> <li>e. Approach of a patient with orthopaedic infection</li> <li>f. Principles of management</li> <li>g. Differentiation of acute ,subacute and chronic osteomyelitis</li> <li>h. How to approach a patient with septic arthritis</li> <li>i. Predisposing factors</li> <li>j. Differentiation between irritable hip and septic hip in children</li> <li>k. Open fractures grading and approach</li> <li>l. Septic bursitis: approach</li> <li>m. TB orthopaedic infections pathophysiology complications and management</li> <li>n. Principles of analgesic administration</li> </ul>	22 (1, 2)	25 (A, B) and Moodle
Hip fractures	1	د. ياسم حداد	<ul style="list-style-type: none"> <li>a. List the types and mechanism of different fractures in the hip</li> <li>b. Differentiate between intertrochanteric ,sub trochanteric and femur neck fractures</li> </ul>	22 (1, 2)	25 (A, B) and Moodle

			<ul style="list-style-type: none"> <li>c. Diagnose hip fractures, clinical &amp; radiological evaluation</li> <li>d. Identify the principles of management of different types of hip fractures</li> </ul>		
Fractures in children	1	د. عمر سمارة	<ul style="list-style-type: none"> <li>a. Define the differences in the anatomy and the physiology of the growing skeleton</li> <li>b. Understand the anatomy of the physis in the immature skeleton</li> <li>c. List different types of growth plate fractures</li> <li>d. Recognize the difference of treating injuries in the growing skeleton, when not to operate?</li> <li>e. List the indications for operative treatment in the growing skeleton</li> <li>f. Understand the different fixation techniques available to treat these injuries</li> </ul>	22 (1, 2)	25 (A, B) and Moodle
Humerous fractures	1	أ.د. شاهر الحديدي	<ul style="list-style-type: none"> <li>a. List the types and mechanism of different fractures in the humerus</li> <li>b. Diagnose the humerus fractures, clinical &amp; radiological evaluation</li> <li>c. Identify the principles of management of different humerus fractures</li> </ul>	22 (1, 2)	25 (A, B) and Moodle
Knee Examination	1	د. محمد حمدان	Carry out a thorough knee physical examination according to look, feel, move and knee special tests system.	22 (1, 2)	25 (A, B) and Moodle
Elbow fractures	2	أ.د. شاهر الحديدي	<ul style="list-style-type: none"> <li>a. List the types and mechanism of different fractures in elbow</li> <li>b. Diagnose elbow fractures, clinical &amp; radiological evaluation</li> <li>c. Identify the principles of management of different elbow fractures</li> </ul>	22 (1, 2)	25 (A, B) and Moodle
Forearm fractures	2	أ.د. شاهر الحديدي	<ul style="list-style-type: none"> <li>a. List the types and mechanism of different fractures in the forearm</li> <li>b. Diagnose the forearm fractures, clinical</li> </ul>	22 (1, 2)	25 (A, B) and Moodle

			<ul style="list-style-type: none"> <li>&amp;radiological evaluation</li> <li>c. Identify the principles of management of different forearm fractures</li> <li>d. Forearm fractures are considered intra articular fractures mandating anatomical reduction and rigid fixation</li> </ul>		
Distal radius fracture	2	أ.د. شاهر الحديدي	<ul style="list-style-type: none"> <li>a. List the types and mechanism of different fractures in the distal radius</li> <li>b. Diagnose the distal radius fractures, clinical &amp; radiological evaluation</li> <li>c. Identify the principles of management of different distal radius fractures</li> </ul>	22 (1, 2)	25 (A, B) and Moodle
Tibialplateau,Tibial shaft and Plafond fractures	2	د. محمود عيابه	<ul style="list-style-type: none"> <li>a. List the types and mechanism of different fractures in tibialplateau,tibial shaft and plafond</li> <li>b. Diagnose tibial plateau ,tibial shaft and plafond fractures, clinical &amp; radiological evaluation</li> <li>c. Identify the principles of management of different tibial plateau ,tibial shaft and plafondfractures</li> </ul>	22 (1, 2)	25 (A, B) and Moodle
Spinal deformities( <i>Scoliosis, Kyphosis, Lordosis</i> )	2	د. فادي الحديدي	<ul style="list-style-type: none"> <li>a. Discuss the incidence, family history, &amp; the clinical assessment</li> <li>b. Identify features indicative of progression of different spinal deformities</li> <li>c. Describe the indications for surgical intervention.</li> <li>d. To know the treatment options, the risks and common complications of both operative and non-operative treatment</li> <li>e. Identify red flags such as tumors, neural tube abnormalities,</li> </ul>	22 (1, 2)	25 (A, B) and Moodle

			connective tissue and muscular disease, and their association with spinal deformity.		
Osteoarthritis and Arthroplasty	2	د. جهاد العجلوني	<ul style="list-style-type: none"> <li>a. Describe the pathophysiology of osteoarthritis.</li> <li>b. Discuss history taking and physical examination of a patient with osteoarthritis.</li> <li>c. Describe the radiological findings of osteoarthritis.</li> <li>d. Know the non-surgical options for treatment.</li> <li>e. Describe the surgical options and know how to discuss these options with the patient and his family.</li> </ul>	22 (1, 2)	25 (A, B) and Moodle
Shoulder disorders and shoulder exam	2	د. اوس خنفر	<p>To be exposed to the anatomy, history, physical examination, diagnostic and treatment methods of the following topics:</p> <ul style="list-style-type: none"> <li>a. Rotator cuff tears</li> <li>b. Frozen shoulder</li> <li>c. Impingement syndrome</li> <li>d. Calcifying tendinitis</li> <li>e. Shoulder OA</li> <li>f. Rotator cuff arthropathy</li> </ul>	22 (1, 2)	25 (A, B) and Moodle
Pediatric Hip disorders	2	د. عمر سمارة	<p><b>Developmental Hip Dysplasia (DDH)</b></p> <ul style="list-style-type: none"> <li>a. Define DDH</li> <li>b. List different terminology used in DDH</li> <li>c. Identify the Incidence of DDH</li> <li>d. Growth &amp; development of the hip</li> <li>e. Mention the Risk factors for DDH</li> <li>f. Identify the different Screening Programms for DDH</li> <li>g. List physical signs in DDH</li> <li>h. Treatment policies</li> <li>i. Treatment outcome</li> </ul> <p><b>Perthes disease</b></p> <ul style="list-style-type: none"> <li>a. Define Perthes-leg-calves disease</li> <li>b. Identify the vascular anatomy of the femoral head</li> <li>c. List the risk Factors for perthes disease</li> <li>d. Identify the lateral pillar classification system</li> <li>e. Treatment policies</li> <li>f. Treatment outcome</li> </ul> <p><b>Slipped Capital Femoral Epiphysis(SCFE)</b></p> <ul style="list-style-type: none"> <li>a. Define SCFE</li> </ul>	22 (1, 2)	25 (A, B) and Moodle



			<ul style="list-style-type: none"> <li>b. List the risk Factors for SCFE</li> <li>c. Mention the physical signs in SCFE</li> <li>d. Identify classification regarding the stability</li> <li>e. Radiological signs of SCFE</li> <li>f. Treatment policies</li> <li>g. Treatment outcome</li> </ul>		
Knee disorders	2	د. محمد حمدان	<p>To be exposed to the anatomy, history, physical examination, diagnostic and treatment methods of the following topics:</p> <ul style="list-style-type: none"> <li>a. Patellar Instability</li> <li>b. Lateral Patellar Compression Syndrome</li> <li>c. Idiopathic Chondromalacia Patellae.</li> <li>d. Quadriceps Tendon Rupture and tendinitis</li> <li>e. Patella Tendon Rupture and tendinitis</li> <li>f. Articular Cartilage Defects of Knee</li> <li>g. Osteonecrosis of the Knee</li> </ul>	22 (1, 2)	25 (A, B) and Moodle
Patellar fractures	3	أ.د. شاهر الحديدي	<ul style="list-style-type: none"> <li>a. List the types and mechanism of different fractures in the patella</li> <li>b. Diagnose the patellar fractures, clinical &amp; radiological evaluation</li> <li>c. Identify the principles of management of different patellar fractures</li> </ul>	22 (1, 2)	25 (A, B) and Moodle
Elbow and Hand examination	3	أ.د. شاهر الحديدي	Carry out a thorough elbow and hand physical examination according to look, feel, move and elbow and hand special tests system.	22 (1, 2)	25 (A, B) and Moodle
Peripheral nerve injuries	3	أ.د. شاهر الحديدي	<ul style="list-style-type: none"> <li>a. Identify the anatomy of brachial plexus and peripheral nerves</li> <li>b. Mention the types of nerve injuries (Neuropraxia to neurotmesis)</li> <li>c. Assess the ancillary nerve injuries in shoulder dislocations</li> <li>d. Evaluate the nerve injuries in supracondylar elbow fractures</li> <li>e. Identify the compression neuropathies (focusing</li> </ul>	22 (1, 2)	25 (A, B) and Moodle

			on carpal tunnel syndrome)		
Femur fractures	3	د. محمود عباينة	<ul style="list-style-type: none"> <li>a. List the types and mechanism of different fractures in the femur</li> <li>b. Diagnose the femur fractures, clinical &amp; radiological evaluation</li> <li>c. Identify the principles of management of different femur fractures</li> </ul>	22 (1, 2)	25 (A, B) and Moodle
Spinal disorders and Low back pain	3	د. فادي الحديدي	<p><b>Spinal canal stenosis, disc prolapse</b></p> <ul style="list-style-type: none"> <li>a. Demonstrate and understand the pathophysiology, pathology, and natural history of common spinal conditions</li> <li>b. Differentiate clinical picture of different spinal disorders</li> <li>c. Identify the radiological parameters for diagnosis</li> <li>d. List appropriate available <i>treatment alternatives</i>, including both non-operative and operative ones</li> </ul>	22 (1, 2)	25 (A, B) and Moodle
Benign bone tumors	3	د. ياسم حداد	<ul style="list-style-type: none"> <li>a. Know the history, nature, physical examination and epidemiology of benign bone tumors.</li> <li>b. Describe and x-ray with a bone lesion and differentiate aggressive from benign lesion.</li> <li>c. Know the principles of benign soft tissue tumors and classification.</li> <li>d. Describe the principles of bone biopsy.</li> <li>e. Illustrate several examples of the common benign bone lesions.</li> </ul>	22 (1, 2)	25 (A, B) and Moodle
Principles of rehab & Ortho-rehab	3	د. زياد الحوامدة	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>a. Identify ethical issues in rehabilitation</li> <li>b. Identify principles of rehabilitation definitions.</li> <li>c. Describe principles of rehabilitation team and its members.</li> </ul>	22 (1, 2)	25 (A, B) and Moodle

			<ul style="list-style-type: none"> <li>d. Describe indication, precautions and contraindications of therapeutic modalities.</li> <li>e. Describe common rehabilitation protocols in orthopedics including total hip and knee replacement.</li> <li>f. Definitions and principles of exercises and their prescription.</li> <li>g. Identify normal and pathological gait</li> </ul>		
Pediatric foot	3	د. عمر سمارة	<p><b>Club foot, Congenital vertical talus</b>  <b>Amniotic band syndrome,</b>  <b>Tarsal coalition</b>  <b>Hallux valgus, Polydactyly,</b>  <b>Cavus foot</b></p> <ul style="list-style-type: none"> <li>a. Define the difference between congenital &amp; developmental disorders</li> <li>b. Define the time of appearance of the symptoms of different foot problems</li> <li>c. Identify the clinical picture of each foot disorder</li> <li>d. Identify the normal radiological relationship of the foot bones</li> <li>e. Identify the radiological appearance of different foot disorders</li> <li>f. Conservative treatments of foot disorders</li> <li>g. Surgical options of foot disorders</li> <li>h. Orthotic devices in foot disorders</li> </ul>	22 (1, 2)	25 (A, B) and Moodle
Sport injuries	3	د. محمد حمدان	<p>To be exposed to the anatomy, history, physical examination, diagnostic and treatment methods of the following topics:</p> <ul style="list-style-type: none"> <li>a. Meniscal Injuries and cysts.</li> <li>b. Discoid Meniscus.</li> <li>c. ACL (Anterior Cruciate Ligament) Tear.</li> <li>d. PCL (Posterior Cruciate Ligament) Tear.</li> <li>e. MCL&amp; LCL (medial and lateral collaterals) Knee Injuries</li> <li>f. Posterolateral Corner Injury</li> </ul>	22 (1, 2)	25 (A, B) and Moodle
Osteomalacia and Osteoporosis	4	أ.د. شاهر الحديدي	<ul style="list-style-type: none"> <li>a. Define the osteoporosis according to WHO</li> <li>b. Analyze the result of the DEXA scan as the gold</li> </ul>	22 (1, 2)	25 (A, B) and Moodle

			<ul style="list-style-type: none"> <li>c. investigation</li> <li>c. It is not a silent disease anymore (sarcopenia and bone tenderness)</li> <li>d. Males incidence of osteoporosis is creeping up</li> <li>e. Assess the fracture risk using the WHO FRAX score</li> </ul>		
Hand infections	4	أ.د. شاهر الحديدي	<ul style="list-style-type: none"> <li>a. Assess the human bite injuries &amp; insist admission and exploration</li> <li>b. List the Kanavel's signs of flexor compartment hand infections</li> <li>c. Identify Paronychia and pulp space infections and focus on their significance</li> <li>d. List the risk factors of hand infections including nail biting and manicuring</li> <li>e. Identify the role of the topical steroids as best treatment for fungal nail infection</li> </ul>	22 (1, 2)	25 (A, B) and Moodle
Ankle and Foot fractures	4	د. محمود عباينة	<ul style="list-style-type: none"> <li>a. List the types and mechanism of different fractures in the ankle and foot</li> <li>b. Diagnose the ankle and foot fractures, clinical &amp; radiological evaluation</li> <li>c. Identify the principles of management of different ankle and foot fractures</li> </ul>	22 (1, 2)	25 (A, B) and Moodle
Spinal trauma	4	د. فادي الحديدي	<ul style="list-style-type: none"> <li>a. Perform a screening clinical examination to assess the presence of a spinal injury</li> <li>b. Apply ATLS system on spinal injury patient</li> <li>c. Ability to diagnose spinal injuries in trauma patients</li> <li>d. Order and interpret appropriate radiographic investigations</li> <li>e. Recognize radiographic features of instability.</li> <li>f. Identify those patients who will benefit from</li> </ul>	22 (1, 2)	25 (A, B) and Moodle

			<p>operative intervention</p> <p>g. Describe the indications for surgery.</p> <p>h. Knowledge of different modalities of treatment of spinal injury patient</p> <p>i. Appreciate the importance of a multidisciplinary approach in the management of spinal injury patients.</p>		
Malignant bone tumors	4	د. ياسم حداد	<p>a. Know the history, nature, physical examination and epidemiology of malignant bone tumors.</p> <p>b. Describe and x-ray with a bone lesion and differentiate aggressive from benign lesion.</p> <p>c. Know the principles of malignant soft tissue tumors and classification.</p> <p>d. Describe the principles of bone biopsy.</p> <p>e. Illustrate several examples of the common malignant bone lesions.</p>	22 (1, 2)	25 (A, B) and Moodle
Amputations	4	د. زياد الحوامدة	<p>a. Identify different types of amputations and their rehabilitation protocols.</p> <p>b. Identify general prosthetic prescription guidelines.</p>	22 (1, 2)	25 (A, B) and Moodle
Gait disorders	4	د. يوسف سرحان	<p>a. To know definition of gait cycle, stride and step</p> <p>b. To know phases and sub phases of gait cycle</p> <p>c. Identify normal differentiate it from pathological gait</p> <p>d. To know the common examples of pathological gait</p>	22 (1, 2)	25 (A, B) and Moodle

## 21. Teaching Methods and Assignments:

Development of ILOs is promoted through the following teaching and learning methods:

1. Two daily seminars with consultants covering the major topics in orthopaedics and trauma.
2. Three outpatient clinics attendance per week.
3. The attendance of elective and emergency orthopaedic surgeries.
4. On call duties to recognize the role of the orthopaedic surgeon in the emergency department.
5. Patient history discussions during rounds and clinics.

**22. Evaluation Methods and Course Requirements:**

Opportunities to demonstrate achievement of the ILOs are provided through the following assessment methods and requirements:

1. Clinical end of rotation exam including an OSCE exam, a major case and a minor case.
2. Written MCQ end of year exam.

**23. Course Policies:**

A- Attendance policies: According to the regulations of the University of Jordan.

B- Absences from exams and handing in assignments on time: According to the regulations of the University of Jordan

C- Health and safety procedures: According to the regulations of the University of Jordan

D- Honesty policy regarding cheating, plagiarism, misbehavior: According to the regulations of the University of Jordan

E- Grading policy: According to the regulations of the University of Jordan

F- Available university services that support achievement in the course: Students can utilize UJ's medical or main library facilities. In addition, they can access e-journals and e-books within campus. They can access the Moodle e-learning through the UJ's wireless internet facilities for free or through the computer lab in the Faculty of Medicine. A lot of other facilities and support can be provided through the Deanship of Student Affairs.

**24. Required equipment:**

None special

**25. References:**

A- Required book (s), assigned reading and audio-visuals:

1. Apley's System of Orthopaedics and Fractures, Ninth Edition  
Louis Solomon, David Warwick, SelvaduraiNayagam  
August 27, 2010  
Reference - 992 Pages  
ISBN 9780340942055

B- Recommended books, materials, and media:

1. Miller's Review of Orthopaedics, Seventh Edition  
By Mark D. Miller, MD and Stephen R. Thompson, MD, MEd, FRCSC  
ISBN: 978-0-323-35517-9

**26. Additional information:**

Name of Course Coordinator: -----Signature: ----- Date: -----

Head of curriculum committee/Department: ----- Signature: -----

Head of Department: ----- Signature: -----

Head of curriculum committee/Faculty: ----- Signature: -----

Dean: ----- -Signature: -----

Copy to:  
Head of Department  
Assistant Dean for Quality Assurance  
Course File