

Semmelweis University, Faculty of Medicine - undivided, one-tier training in general medicine

Name of the host institution (and any contributing institution):

Traumatológiai Klinika, Ortopédiai Klinika

Name of subject in Hungarian: Traumatológia és ortopédia

Name of subject in English: Traumatology and Orthopedics

Name of subject in German: Traumatologie und Orthopädie

Credit value of the course: 5

Semester: 7th semester, 8th semester

(in which the subject is taught according to the curriculum)

Weekly hours	Lecture	Practice	Seminar
5.0	1.0	4.0	0.0

Semester hours	Lecture	Practice	Seminar
0.0	0.0	0.0	0.0

Type of course:

obligatory

Academic year:

2026/27

Language of instruction (for optional and elective subjects):

Course code:

AOKTRA1115_1A

(in the case of a new course, to be completed by the Dean's Office, following approval)

Course coordinator name: Dr. Bodzai Tamás János (klinikaigazgató)

Course coordinator location of work, telephone availability: Semmelweis University Clinic for Traumatology, e-mail: office.trauma@semmelweis.hu, Tel: 06 20/825-8680

Course coordinator position: Head of department, associate professor

Course coordinator Date and number of habilitation: 2025.03.12. 37995/HABIZ/2025

Objectives of the course, and its place in the curriculum of the medical training program:

Traumatology as a specialty deals with the treatment of injured patients, independent of the injured organ, patient's age or previous diseases. In developed countries, the 4-5th leading cause of death is injury, while in the actively working population, the rate of death is even higher. Morbidity in children and in the elderly is also high. Traumatology treatment for the most part deals with extremity surgery in correlation to orthopedics, however cranial, thoracic, abdominal, spinal and pelvic injuries as well as the treatment of polytraumatized patients also belong to the field of trauma

care.

Orthopedics is an integral part of the limb surgery branch of the surgical curriculum. Practitioners of almost any discipline encounter orthopedic issues, making it essential to understand the diagnosis and treatment options for fundamental conditions. Equally important is the timely recognition of specific, urgent, or potentially surgically treatable conditions. The field of orthopedics intertwines with and organically integrates knowledge from other disciplines, requiring above-average "lateral thinking" skills and synthetic thinking from students. This is what we aim to focus on.

Format of the course (lectures, group work, practical lessons, etc.):

Lecture + practice. Small group work during the practice sessions. Clinical practice at the bedside.

During the 14 hours of lectures, the topics of the subject are presented, which the student supplements with the required literature and the lecture materials available on Moodle.

The lecture materials can be found on the Semmelweis University E-learning portal (Moodle).

<https://itc.semmelweis.hu/moodle/>

Competencies acquired through completion of course:

Traumatology

During practices, students will have the opportunity to learn the following: physical examination of injured patients, bandaging, suturing, casting techniques, and the uses of orthoses and splints. Students will have the opportunity to enter the operating theater, scrub in for operations, and become acquainted with special instruments used in Traumatology. Consultation of typical and the more frequent trauma cases, radiologic diagnostics, as well as videos in the operative theater are also part of the curriculum. During on duty shifts, students will have an opportunity to examine and participate in the trauma care of patients under supervision.

Orthopedics

Clinical examination competency. Proficiency in the indications for non-physical diagnostics in orthopedics. Confident group diagnosis and therapy of urgent and/or severely damaging conditions. Surgical and conservative treatment options for orthopedic conditions, their advantages and disadvantages, and limitations. Upon completing the course, the student will be able to use examinations to identify patients in need of urgent orthopedic care. They will be able to select patients who do not require urgent care but will need assistance from an orthopedic specialist in the

future. The student will also be able to conservatively manage basic conditions that do not require orthopedic intervention. They will understand the correlations of major orthopedic conditions.

Course outcome (names and NEPTUN ID of related subjects):

Prerequisites for course registration and completion: (NEPTUN ID):

Basic Surgical Techniques, Pathology II, Internal Medicine - Propedeutics

In the case of multi-semester courses, position on the possibility of and conditions for concurrent registration:

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The number of students required to start the course (minimum, maximum), method of selecting participants:

Since Traumatology is a compulsory subject, there is no minimum number of students.

Maximum number of students is 18 students/block

Detailed course syllabus (if the course can be divided into modules, please indicate): (Theoretical and practical instruction must be broken down into hours (weeks), numbered separately; names of instructors and lecturers must be listed, indicating guest lecturers/instructors. It cannot be attached separately! For guest lecturers, attachment of CV is required in all cases!)

Traumatology lectures are available on Semmelweis University's E-learning portal (Moodle)

Lectures

Traumatology lectures are available on Semmelweis University's E-learning portal (Moodle)

1. Introduction to Traumatology
2. Soft tissue injuries, wound healing, and bone healing
3. Polytrauma - Chest, rib fractures, abdominal trauma - Neurotrauma
4. Pelvic and femur fractures - Lower leg and ankle fractures - Upper and lower ankle joint and foot injuries

5. Shoulder, upper arm, and elbow injuries - Forearm and wrist injuries - Hand injuries
6. Pediatric Trauma
7. Open fractures, septic and non-septic complications

Orthopedics Orthopedics e-learning material is available on Semmelweis University's e-learning portal (Moodle system).

1. General Orthopedics
2. Metabolic Bone Diseases
3. Diseases of the Spine
4. Diseases of the Shoulder Girdle
5. Diseases of the Wrist and Hand
6. Hip Joint Diseases in Adulthood
7. Diseases of the Knee Joint
8. Diseases of the Foot
9. Developmental Abnormalities of the Skeletal System
10. Neuromuscular Diseases
11. Pediatric Orthopedics
12. Tumors of the Musculoskeletal System

Mixed theoretical and practical days, and 1 practical exam day.

The Department reserves the right to make changes in the lecture schedule and practical lessons schedule during the academic year.

Lecturers

Dr. Abonyi Bence
Dr. Aminy Amanullah
Dr. Antal Imre
Dr. Asztalos András
Dr. Balsai Tamás
Dr. Bartha Lajos
Dr. Bejek Zoltán
Dr. Bodzai Tamás János
Dr. Boros Roxána Krisztina
Dr. Cséka Botond Ákos
Dr. Dobrean Levente
Dr. Domos Gyula Tamás
Dr. Dorony Balázs
Dr. Drajkó Balázs Márk
Dr. Faragó Bence

Dr. Fehér Milán
Dr. Gömöri Kristóf
Dr. Gresits Orsolya Zsuzsanna
Dr. Holnapy Gergely
Dr. Kaszap Balázs
Dr. Keszég Miklós Attila
Dr. Kiss János
Dr. Kiss Sándor
Dr. Koczka Dániel
Dr. Kocsis András Bernát
Dr. Lazáry Áron
Dr. Lepár Gábor
Dr. Moghaddam Amin Maysam
Dr. Pahlavanyali Afshin
Dr. Pánics Gergely
Dr. Pap Károly
Dr. Poór Valentin
Dr. Posta András Zoltán
Dr. Sallai Imre
Dr. Skaliczki Gábor
Dr. Stubnya Bence Gusztáv
Dr. Szabó Miklós Károly
Dr. Szabó Sándor
Dr. Szalay Krisztián
Dr. Szatmári Attila
Dr. Szendrői Miklós
Dr. Szilágyi Gábor Sándor
Dr. Szmola Dániel
Dr. Sztrinkai Gergely
Dr. Terebessy Tamás
Dr. Varga Csaba
Dr. Vezér Mátyás Attila
Dr. Virág-Tulassay Eszter Éva
Dr. Weninger Viktor
Fehér Ágnes Anna
Herpai Áron Ambrus
Horváth Csenge
Nemes Blanka
Sármay Dorottya

Other courses with overlapping topics (obligatory, optional, or elective courses) in interdisciplinary areas. To minimize overlaps, topics should be coordinated. NEPTUN ID(s) of courses (to be provided):

Requirements for attendance, options for making up missed sessions, and method of absence justification:

Based on the 39/2023. (V.25.) Semmelweis University Organizational and Operating Regulations amended by university's Senate - III. BOOK Student Requirements - III.2. PART Academic and Examination Regulations, Section 29. § 4, which states: „absences must be assessed together for lectures, seminars and practices requiring attendance, and may not exceed 10% during the block schedule of 4th-5th year Faculty of Medicine students...”

Only 7 academic hours of absence can be accepted in Traumatology and orthopedics for 4th year students during their Traumatology and orthopedics block of 70 hours!.

The date of signing the attendance sheets for the given day is the responsibility of the hospitals' department.

Any student who, for whatever reason, needs to be absent for a maximum of 7 academic hours, but whose attendance has not yet been checked that day, should notify the teacher that he/she wishes to sign the attendance sheet and indicate the exact time spent at the department on that day (the exact time of arrival and departure).

Make up of absences:

- Make up of absences can be done in a later block, but only within the semester. Students need to make up the same day they were absent in the original block (practice day or lectures). The student can only take the semi-final exam after make-up of the absence - at the earliest in that block that he/she made up in. Scheduling of make-up of absence during traumatology days and making an appointment for the postponed examination needs to be confirmed by e-mail through the Clinic for Traumatology. Scheduling of make-up of absence during orthopedic days and making an appointment for the postponed examination needs to be confirmed by e-mail through the Clinic for Orthopedics.
- If the absence were to occur in the last block of the first semester, then make-up of the absence can be done in the second semester, but the student needs to reapply for the course as “only exam” in the second semester. The earliest at which a student can take the exam is at the end of the block in which the student made-up the absence. Scheduling of absence during traumatology days and making an appointment for the postponed examination needs to be confirmed by e-mail through the Clinic for Traumatology. Scheduling of make-up of absence during orthopedic days and making an appointment for the postponed examination needs to be confirmed by e-mail through the Clinic for Orthopedics.
- If the absence were to occur in the last block of the second semester, then make-up of the absence can be done in the first semester of the following year. In this case, the student needs to reapply for the course as “only exam” in the following year. The earliest at which a student can take the exam is at the end of the block in which the student made-up the absence. Scheduling of absence during traumatology days and making an appointment for the postponed examination needs to be confirmed by e-mail through the Clinic for Traumatology. Scheduling of make-up of absence during orthopedic days and making an appointment for the

postponed examination needs to be confirmed by e-mail through the Clinic for Orthopedics.

Assessment methods during semester (number, topics, and dates of midterms and reports, method of inclusion in the course grade, opportunities for make-up and improvement of marks):

(number, topics, and dates of midterms and reports, method of inclusion in the course grade, opportunities for make-up and improvement of marks)

Within the short course of the Traumatology and Orthopedics block, there will be no formal assessment of students. The interactive practices and seminars allow for evaluation of students' knowledge of the subject.

Number and type of individual assignments to be completed, submission deadlines:

Practical exam: Patient examination

Completing the practical exam is required for the signature, and for the final exam.

Evaluation of the practical exam: successful/ not successful.

Due to holidays the date of the practical exam may change.

Requirements for the successful completion of the course:

Minimum required active attendance of the block seminars and practices and completion of the practical exams.

Type of assessment:

terminal examination

Exam requirements (list of topics, topics of the test exam, and the optional project topics accepted as an exam)

The knowledge of the given textbook, uploaded lecture material in Moodle and practice material.

Topics: see "Detailed course syllabus "

Clear, specific minimum requirements for assessment. (The list of mandatory concepts, parameters, diagrams, calculations, and practical skills required to obtain a passing grade, as well as the criteria for the completion and evaluation of project assignments accepted as an exam.) A link published on the department's website referring to the minimum requirements of the course.

See points 26. and 29.

0% - 49% Fail (1)

50% - 63% Pass (2)

64% - 75% Satisfactory (3)

76% - 87% Good (4)

88 - 100% Excellent (5)

Method and type of grading (Share of theoretical and practical examinations in the overall evaluation. Inclusion of the results in the end-of-term assessment. Possibilities of and conditions for offered grades.): (Share of theoretical and practical examinations in the overall evaluation, Inclusion of the results in the end-of-term assessment, Possibilities of and conditions for offered grades)

Completing the practical exam is required for the signature, and for the final exam.

Evaluation of the practical exam: successful/ not successful (Practice test available.) In case of a failing (1) or satisfactory (2) grade, the Clinic provides the possibility of an oral exam.

Written MCQ electronic exam. 5 scale grading (1-5).

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Artificial intelligence systems used in the teaching of the subject and the manner of their application

List of coursebooks, textbooks, study aids and literature facilitating the acquisition of knowledge to complete the course and included in the assessment, precisely indicating which requirement each item is related to (e.g., topic by topic) as well as a list of important technical and other applicable study aids; possibility of individual or group student consultation, if available:

Online resources:

Type	Mandatory
Title	
Link	https://itc.semmelweis.hu/moodle/

Printed resources:

Type	Mandatory
Author	Editors: Andrew B. Peitzman Michael Rhodes C. William Schwab Donald M. Yealy Timothy C. Fabian
Title	The Trauma Manual: TRAUMA AND ACUTE CARE SURGERY Third edition
Publisher	Wolters Kluwer / Lippincott Williams & Wilkins
Year of publication	1

Signature of habilitated instructor (course coordinator) announcing the course:

Signature of the director of the host institution:

Date of submission:
