

# Course description

<b>Course abbreviation:</b>	KSA/MKB1	<b>Page:</b>	1 / 3
<b>Course name:</b>	Methods of Skeletal Biology 1		
<b>Academic Year:</b>	2023/2024	<b>Printed:</b>	28.05.2024 04:57

<b>Department/Unit /</b>	KSA / MKB1			<b>Academic Year</b>	2023/2024
<b>Title</b>	Methods of Skeletal Biology 1			<b>Type of completion</b>	Exam
<b>Accredited/Credits</b>	Yes, 6 Cred.			<b>Type of completion</b>	Oral
<b>Number of hours</b>	Lecture 2 [Hours/Week] Tutorial 3 [Hours/Week]			<b>Course credit prior to</b>	YES
<b>Occ/max</b>	Status A	Status B	Status C	<b>Counted into average</b>	YES
<b>Summer semester</b>	0 / -	0 / -	0 / -	<b>Min. (B+C) students</b>	5
<b>Winter semester</b>	0 / -	0 / -	0 / -	<b>Repeated registration</b>	NO
<b>Timetable</b>	Yes			<b>Semester taught</b>	Summer semester
<b>Language of instruction</b>	Czech			<b>Internship duration</b>	0
<b>Optional course</b>	Yes			<b>Ev. sc. – cred.</b>	S N
<b>Evaluation scale</b>	1 2 3 4				
<b>No. of hours of on-premise</b>					
<b>Auto acc. of credit</b>	Yes in the case of a previous evaluation 4 nebo nic.				
<b>Periodicity</b>	K				
<b>Substituted course</b>	None				
<b>Preclusive courses</b>	N/A				
<b>Prerequisite courses</b>	N/A				
<b>Informally recommended courses</b>	N/A				
<b>Courses depending on this Course</b>	N/A				

## Course objectives:

This course is intended for postgraduates/Masters students.

The course focuses on skeleton in the field practice and methods of the determination of the essential biological parameters from skeletons. Students will be trained in methods of the reconstruction of bones from fragments, estimation of minimal and maximal number of individuals, documentation of the position and structuring of skeletal elements etc. The methods of the estimation of basic biological parameters are focused on sex, age, body height, and the set of morphological methods describing biodistance between individuals. The field anthropology will be accompanied with studies of the decomposition and taphonomy. This part of the course will allow students to become familiar with the methodological basis of the analysis of human skeleton in the field. The emphasis will be placed on the training of the practical skills in the field.

## Requirements on student

Final report, manual, digest from 6 articles, oral presentation of one article, active participation. Reading of english texts. Following the etical codex and proper citing.

## Content

Preservation and identification of bones, osteometry, stature estimation, morphoscopic methods, sex estimation, age estimation, measurement errors.

## Fields of study

## Guarantors and lecturers

- **Guarantors:** Mgr. Patrik Galeta, Ph.D. (100%)
- **Lecturer:** Mgr. Lukáš Friedl, Ph.D. (100%), Mgr. Patrik Galeta, Ph.D. (100%), Mgr. Anna Pankowská, Ph.D. (100%)
- **Tutorial lecturer:** Mgr. Lukáš Friedl, Ph.D. (100%), Mgr. Patrik Galeta, Ph.D. (100%), Mgr. Anna Pankowská, Ph.D. (100%)

## Literature

- **Basic:** Katzenberg, M. Anne; Sauders, Shelley R. *Biological anthropology of the human skeleton*. New York : Wiley-Liss, 2000. ISBN 0-471-31616-4.
- **Basic:** Bass, W. M. *Human Osteology: A Laboratory and Field Manual*. Missouri Archeological Society, Special Publication No. 2, 1987.
- **Basic:** Buikstra, J. E. & Ubelaker, D. H. (Eds.). *Standards for Data Collection from Human Skeletal remains*. Arkansas Archeological Survey Research Series No. 44, 1994.
- **Extending:** Scheuer, Louise; Black, Sue. *Developmental juvenile osteology*. San Diego : Academic Press, 2000. ISBN 0-12-624000-0.
- **Recommended:** White, Tim D. *Human osteology*. San Diego : Academic Press, 2000. ISBN 0-12-746612-6.

## Time requirements

## All forms of study

Activities	Time requirements for activity [h]
Contact hours	65
Graduate study programme term essay (40-50)	40
Preparation for an examination (30-60)	50
<b>Total:</b>	<b>155</b>

## assessment methods

**Knowledge - knowledge achieved by taking this course are verified by the following means:**

- Oral exam
- Seminar work
- Individual presentation at a seminar

**Skills - skills achieved by taking this course are verified by the following means:**

- Oral exam
- Seminar work
- Individual presentation at a seminar
- Skills demonstration during practicum

## prerequisite

**Knowledge - students are expected to possess the following knowledge before the course commences to finish it successfully:**

- popsat morfologii lidských kostí a zubů

**Skills - students are expected to possess the following skills before the course commences to finish it successfully:**

- pracovat ve strukturovaném procesu, ve kterém na sebe jednotlivé kroky navazují, a nelze zaměnit jejich pořadí
- porozumět a interpretovat odborný text v českém jazyce
- porozumět a interpretovat odborný text v anglickém jazyce

## teaching methods

**Knowledge - the following training methods are used to achieve the required knowledge:**

- Lecture
- Group discussion
- Individual study

**Skills - the following training methods are used to achieve the required skills:**

- Practicum

Laboratory work  
Individual study  
Skills demonstration  
Group discussion

#### learning outcomes

##### Knowledge - knowledge resulting from the course:

charakterizovat a hodnotit metody terénní antropologie  
charakterizovat a vysvětlit metodický aparát studia kostry v rámci terénní situace  
charakterizovat a vysvětlit proces dekompozice kostry a tafonomie

##### Skills - skills resulting from the course:

provést a vyhodnotit měření jednotlivých kostí a zubů  
aktivně používat a vyhodnocovat metody kosterní antropologie pro odhad biologických parametrů  
využívat metody určení základních biologických parametrů podle kosterních nálezů

#### Course is included in study programmes:

Study Programme	Type of	Form of	Branch	Stage	St. plan v.	Year	Block	Status	R.year	R.
Anthropology	Postgraduate Master	Full-time	Anthropology of Past Populations	1	16-4	2023	Povinné předměty	A	1	LS