| UCLouva | 2021 | | Integrated animal biology : coordination, perception and locomotion | | |
|---------|---------------------|--|---|----|--|
| | 4.00 credits 40.0 h | | n + 10.0 h | Q2 | |

| Teacher(s) | Clotman Frédéric (compensates Knoops Bernard) ;Dumont Patrick ;Dumont Patrick (compensates Knoops Bernard) ;Gofflot Françoise ;Knoops Bernard ; | | | | | |
|---------------------|--|--|--|--|--|--|
| Language : | French | | | | | |
| Place of the course | Louvain-la-Neuve | | | | | |
| Prerequisites | The prerequisite(s) for this Teaching Unit (Unité d'enseignement – UE) for the programmes/courses that offer this Teaching Un are specified at the end of this sheet. | | | | | |
| Learning outcomes | At the end of this learning unit, the student is able to : To establish the bases in biochemistry, physiology and histology, the main animal tissues will be studied, emphasis being put on mammalian tissues. Certain notions in cellular biology will also be deepened with the objective of integrating morphological, physiological and biochemical aspects in cellular processes. | | | | | |
| Evaluation methods | Written examination. The questions will concern the subject of the different parts of the course, ie the locomotion the nervous system, the sense organs and the endocrine system, including the teaching of practical work. | | | | | |
| Teaching methods | Ex cathedra classes, inverted classes, practical work. | | | | | |
| Content | This teaching unit will include, | | | | | |

| | Mechanisms of hormonal action | | | | |
|----------------------|---|--|--|--|--|
| | Endocrine regulation: important concepts | | | | |
| | B. The main endocrine glands | | | | |
| | Hypothalamus and pituitary gland | | | | |
| | Thyroid | | | | |
| | The parathyroid glands | | | | |
| | The endocrine pancreas | | | | |
| | The epiphysis (pineal gland) | | | | |
| | The adrenal | | | | |
| | The organs / structures of the different systems taught in the lectures will be illustrated during practical sessions | | | | |
| | thanks to the observation and analysis of histological sections. | | | | |
| Inline resources | Course Powerpoints available on Moodle. | | | | |
| Bibliography | Ouvrages de référence : Neurosciences (Purves <i>et aL</i> , éditions de Boeck). Pour la partie relative au systèm endocrinien: Précis de Physiologie Médicale (Guyton & Hall ; Piccin Nuova Libraria); The endocrine System (Hinsor Raven & Chew ; Elsevier). Ouvrages conseillés, non indispensables. | | | | |
| Other infos | Presence in practical work is mandatory. Any unjustified absence will be sanctioned. Moreover, the holders of the course may, under the article 72 of the General Regulations for Studies and Examinations, propose to the jury to oppose the registration of a student who has not attended to the various sessions of the practical works (without justficiation), for the January, June or September sessions. | | | | |
| Faculty or entity in | BIOL | | | | |
| | | | | | |
| charge | | | | | |

| Programmes containing this learning unit (UE) | | | | | | | | |
|---|---------|---------|--|-------------------|--|--|--|--|
| Program title | Acronym | Credits | Prerequisite | Learning outcomes | | | | |
| Minor in Biology | MINBIOL | 4 | | ٩ | | | | |
| Bachelor in Biology | BIOL1BA | 4 | LCHM1141B AND LBIO1111 AND LBIO1112 | ٩ | | | | |
| Master [120] in Biochemistry and Molecular and Cell Biology | BBMC2M | 4 | | ٩ | | | | |