

MOOC supplement

The supplement contains contextual information about your MOOC. This general information is intended to facilitate student and institute in their process of recognition of the MOOC within an educational program. See information on levels below, we revised the levels of EdX.

GENERAL INFORMATION	
Course code and title	WMDS 1224 Système respiratoire partie 1 – in French https://www.uclouvain.be/cours-2016-WMDS1224
Based on MOOC :	https://www.edx.org/course/comprendre-la-respiration-louvainx-louv8x-1
Subject area	Fonctionnement de la respiration humaine – course in French (Respiration in the human body)
Institute/Faculty	Faculty of Medicine, Université catholique de Louvain, Brussels
Platform	This MOOC is delivered through edX.
Type MOOC Assessment	Quizzes and peer graded open questions
COURSE LEVEL AND WORK LOAD	
Level*	Intermediate
Original University Level	Second year bachelor for medical students
Estimated total workload in hours	Nr of hours: 84 3 Nr of ECTS (1ECTS= 28 hours):
Expected prior knowledge/prerequisites	L'étudiant doit maîtriser les notions suivantes : <ul style="list-style-type: none"> ● anatomie des voies aériennes supérieures et profondes, du système cardio-respiratoire et de la cage thoracique. ● histologie spéciale du système respiratoire (et donc celles d'histologie générale). ● physiopathologie respiratoire
COURSE CONTENT	

<p>Main topics Topics per week</p>	<p>Physiologie respiratoire : (repris de la table des matières de J. West)</p> <ol style="list-style-type: none"> 1. Structure et fonction des poumons : comment l'architecture du poumon contribue à sa fonction 2. Ventilation : comment les gaz arrivent aux alvéoles 3. Diffusion : comment les gaz traversent la barrière gaz-sang 4. Débit sanguin et métabolisme : comment les vaisseaux sanguins prélèvent les gaz dans le poumon 5. Rapport ventilation-perfusion : comment une combinaison harmonieuse entre débit gazeux et débit sanguin détermine les échanges gazeux 6. Transport des gaz vers la périphérie : comment les gaz sont acheminés vers les tissus périphériques 7. Mécanique ventilatoire : comment le poumon est maintenu et mobilisé 8. Contrôle de la ventilation : comment les échanges gazeux sont réglés 9. L'appareil respiratoire soumis aux contraintes de l'exercice et de l'altitude 10. Epreuves fonctionnelles respiratoires : apprentissage de la mesure de la fonction pulmonaire. <p>Physiopathologie respiratoire :</p> <ol style="list-style-type: none"> 1. Physiopathologie des syndromes obstructifs (asthme et broncho-pneumopathie chronique obstructive) 2. Physiopathologie des syndromes restrictifs (atteinte du parenchyme pulmonaire : la fibrose pulmonaire ; atteinte de la plèvre : épanchement pleural et pneumothorax ; atteinte de la paroi thoracique : la cyphoscoliose ; atteinte neuromusculaire) 3. Physiopathologie des atteintes vasculaires pulmonaire: la maladie thromboembolique pulmonaire, l'hypertension artérielle pulmonaire
<p>Learning Outcomes After the course you are able to</p>	<ul style="list-style-type: none"> ● Expliquer et décrire les principes d'oxygénation, de ventilation, de transport et de consommation d'oxygène, de diffusion de gaz entre l'air et le sang par des schémas et par des calculs utilisant des formules fondamentales ● Evaluer la quantité et la qualité de l'oxygénation d'un patient ● Distinguer les situations normales de celles dites pathologiques <p>Voyez les acquis d'apprentissage détaillés sur https://uclouvain.be/cours-2018-WMDS1224</p>
<p>Teaching method</p>	<p>MOOC + podcast videos des séances de cours en classe (en français)</p>
<p>Assessment methods</p>	<p>Within the MOOC: quizzes and short exercices; two peer graded open questions.</p> <p>Written final exam – in French - with multiple-choice questions and short-answers questions.</p>

	PRACTICAL MATTERS
Date MOOC runs, paced or self-paced (How flexible is the start date)	Self-paced MOOC but on-campus course is organized between February and April 2019, with a final exam in June
Frequency of MOOC run Per academic year	
	ADDITIONAL INFORMATION VIRTUAL EXCHANGE STUDENTS
Type of student this <u>Online</u> course could be interesting for	Students in Medicine, physiotherapy, nursing
Type of additional assessment for campus students	Written final exam – in French - with multiple-choice questions and short-answers questions.
Timing of the additional assessment	Between June 3 and 29, 2019 (exact dates to be communicated late April)
Max number of exchange students per run	10
Different time zones, multiple exams possible?	
Grading**	ECTS scale

*Levels MOOCs

To enable evaluation of the level of a MOOC by student and also the university (stakeholders such as programme directors, teachers and board of examiners), we revised the levels indicated on edX, with a focus on issuing credits for either bachelor or master programs of our universities. Given the absence of formal entry requirements in MOOCs, and the fact that some MOOCs may be derived from, but do not in their current form are included in, a curriculum, the levels described below are an *indication only* for the course level. Combined with clear prerequisites, they provide more insight in the level of the MOOC.

- **Introductory** – This is an introductory undergraduate/bachelor course building on knowledge acquired during pre-university education. The latter can be specific knowledge for example in a discipline like having an understanding physics, math etc. on high school level.
- **Intermediate** – This is an advanced undergraduate/bachelor course. Some specific knowledge and experience on university level is needed to follow and finish this course.
- **Advanced-** These are courses on master level or higher. Specific knowledge and experience at completed bachelor level is needed to follow and finish this course. The learner acquires specialized knowledge.

** Grading scales

Learning level table

Basen på de 1114 universitetsfag (1114)

ECTS	D	A	B	DK	E	SP	F	UK	GR	IS	I	IRL	NL	P	PL	S	CH
	Denmark	Austria	Belgium	Denmark	Spain	Finland	France	Great Britain	Germany	Ireland	Italy	Ireland	Netherlands	Poland	Portugal	Sweden	Switzerland
Excellent	A	1 27/29	1 32	1 32	1 32	1 32	1 32	1 32	1 32	1 32	1 32	1 32	1 32	1 32	1 32	1 32	1 32
Very good	B	1 27	1 30	1 30	1 30	1 30	1 30	1 30	1 30	1 30	1 30	1 30	1 30	1 30	1 30	1 30	1 30
Good	C	1 24	1 27	1 27	1 27	1 27	1 27	1 27	1 27	1 27	1 27	1 27	1 27	1 27	1 27	1 27	1 27
Satisfactory	D	1 21	1 24	1 24	1 24	1 24	1 24	1 24	1 24	1 24	1 24	1 24	1 24	1 24	1 24	1 24	1 24
Pass	E	1 18	1 21	1 21	1 21	1 21	1 21	1 21	1 21	1 21	1 21	1 21	1 21	1 21	1 21	1 21	1 21
Fail	F	1 15	1 18	1 18	1 18	1 18	1 18	1 18	1 18	1 18	1 18	1 18	1 18	1 18	1 18	1 18	1 18

Sveden U= Undersatt (Fail) G=Godkänd (Pass) VG=V,II Godkänd (Pass with distinction)

EFRE Scale	6	5.5	5	4.5	4	3.5	3	2.5	2	1.5	1	NF
Northern America Scale	A	A-	B	B+	C	C-	D	E	F	F	F	Abank
ECTS Scale	A	B	C	D	C	E	F	F	F	F	F	Abank