



McGILL UNIVERSITY
Faculty of Medicine
School of Communication Sciences & Disorders Fall 2019

Anatomy and Physiology: Speech and Hearing
SCSD-617

Instructors:

Dr. David H. McFarland

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Office Hours: By appointment after course

Office location: 2001 McGill College, Room 842

Dr. Linda Polka

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Telephone number: (514) 398-7235

Office Hours: By appointment

Office location:

1. GENERAL INFORMATION:

Schedule:

- Monday, September 09, 2019 to November 25, 2019, 11:15 am – 1:15 pm
- Thursday November 28, 2019, 9:00 am – 11:00 am
- Wednesday, December 11, 2019, 10:00 am – 12:00 pm

Location: 2001 McGill College, Room 869

Credits for the course: 3 Credit Hours, Graduate studies

2. MCGILL POLICY STATEMENTS:

ACADEMIC INTEGRITY:

“McGill University values academic integrity. Therefore, all students must understand the meaning and consequences of cheating, plagiarism and other academic offences under the Code of Student Conduct and Disciplinary Procedures” (see www.mcgill.ca/students/srr/honest/ for more information).

« L'université McGill attache une haute importance à l'honnêteté académique. Il incombe par conséquent à tous les étudiants de comprendre ce que l'on entend par tricherie, plagiat et autres infractions académiques, ainsi que les conséquences que peuvent avoir de telles actions, selon le Code de conduite de l'étudiant et des procédures disciplinaires (pour de plus amples renseignements, veuillez consulter le site www.mcgill.ca/students/srr/honest/). »

LANGUAGE OF SUBMISSION:

In accord with McGill University's Charter of Students' Rights, students in this course have the right to submit in English or in French any written work that is to be graded.

Conformément à la Charte des droits de l'étudiant de l'Université McGill, chaque étudiant a le droit de soumettre en français ou en anglais tout travail écrit devant être noté (sauf dans le cas des cours dont l'un des objets est la maîtrise d'une langue).

OTHERS:

If you have a disability please contact the instructor to arrange a time to discuss your situation. It would be helpful if you contact the Office for Students with Disabilities at 398-6009 (online at <http://www.mcgill.ca/osd>) before you do this.

In the event of extraordinary circumstances beyond the University's control, the content and/or evaluation scheme in this course is subject to change.

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3. LEARNING OUTCOMES

By the end of this course, students will be able to understand the normal anatomy and physiology of speech and hearing as a basis for future specialized course work and later clinical practice. More specifically, students will have a working knowledge of the anatomy and physiology of the respiratory, laryngeal-phonatory and oropharyngeal-articulatory systems and their neural control, and peripheral and central aspects of hearing.

4. INSTRUCTIONAL METHOD and EVALUATIONS:

The course will consist of lectures, practical activities, independent study and 3 2-hour exams.. All exams will be written in class and will cover both the anatomy and physiology of the target systems. Details of the structure of the practical activities and exams will be given later in the course.

Exam I: Respiratory, laryngeal-phonatory systems (2h): **35%**

Exam II: Oropharyngeal-articulatory, neuroanatomy and cranial nerves (2h): **40 %**

Exam III: Hearing (2h): **25 %**

5. REQUIRED COURSE MATERIALS:

For the information presented by Dr. McFarland, handouts will be provided for physiology. The book (see below) will be the only source for anatomy and a secondary source for physiology. No other information will be required or recommended for this course.

McFarland, D. H. (2014). *Netter's Atlas of Anatomy for Speech, Swallowing and Hearing* (2nd ed.). St Louis, MO: Elsevier, U.S.A.

McFarland, D. H. (2016). *L'anatomie en orthophonie : parole, déglutition et audition, atlas commenté* (3^e éd.). Paris, France : Elsevier Masson

For the information presented by Dr. Polka, the book will be the primary source of information and handouts may be provided and additional readings assigned.

6. COURSE CONTENT:

The anatomy and physiology of speech and hearing mechanisms will be covered. Topics will include neuroanatomy, cranial nerves, hearing and the respiratory, laryngeal-phonatory, and oropharyngeal-articulatory systems.

Course Calendar and Readings

#	Date	Topic	Reading	Pages
01	Sept. 09, 2019	Introduction Basic concepts in Anatomy Respiratory System	Introduction	English book (E): pp. 1-21 French book (F): pp. 1-22
02	Sept. 16, 2019	Respiratory and Laryngeal- Phonatory Anatomy	Part 1 Part 2	E: pp. 25-73, 77-105 F: pp. 25-76, 79-107
03	Sept. 23, 2019	Respiratory System	Part 1	E: pp. 25-73 F: pp. 25-76
04	Sept. 30, 2019	Laryngeal-Phonatory System	Part 2	E: pp. 77-105 F: pp. 79-107
05	Oct. 7, 2019	Anatomy Lab I		
06	Oct. 14, 2019	<i>No class – Thanksgiving Holiday</i>		
07	Oct. 21, 2019	Exam I – Respiratory, Laryngeal-Phonatory		
08	Oct. 28, 2019	Oropharyngeal-Articulatory System	Part 3	E: pp. 109-169 F: pp. 111-175
09	Nov. 4, 2019	Anatomy Lab II		
10	Nov. 11, 2019	Neuroanatomy and Cranial Nerves	Part 5	E: pp. 203-254 F: pp. 209-260
11	Nov. 18, 2019	Exam II – Oropharyngeal-Articulatory, Neuroanatomy, Cranial Nerves		
12	Nov. 25, 2019	Hearing – Dr. Polka	Part 4	E: pp. 173-200 F: pp. 179-206
13	Nov 28, 2019 (Thursday) 9:00 to 11:00 am	Hearing – Dr. Polka	Part 4	E: pp. 173-200 F: pp. 179-206
14	Dec. 11, 2019 (Wednesday) 10:00 to 12:00 am	Exam III – Hearing		