

# COURSE SYLLABUS



COURSE TITLE:	MASS 152 – Neurology 2: CNS
CLASS SECTION:	X01 A&B
TERM:	Fall 2022
COURSE CREDITS:	3 credits
DELIVERY METHOD(S):	Lecture and Lab

Camosun College campuses are located on the traditional territories of the Lək̓ʷəŋən and W̱SÁNEĆ peoples. We acknowledge their welcome and graciousness to the students who seek knowledge here. Learn more about Camosun's [Territorial Acknowledgement](#).

For COVID-19 information please visit <https://legacy.camosun.ca/covid19/index.html>.

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*Camosun College requires mandatory attendance for the first class meeting of each course. If you do not attend, and do not provide your instructor with a reasonable explanation in advance, you will be removed from the course and the space offered to the next waitlisted student.*

## INSTRUCTOR DETAILS

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NAME:	Jamie Johnson <i>MSc. Rehab Science, CAT(C)</i>
EMAIL:	<a href="mailto:johnsonja@camosun.bc.ca">johnsonja@camosun.bc.ca</a>
OFFICE:	PISE 212A
HOURS:	By appointment (250) 370-4725 or email

*As your course instructor, I endeavour to provide an inclusive learning environment. However, if you experience barriers to learning in this course, do not hesitate to discuss them with me. Camosun College is committed to identifying and removing institutional and social barriers that prevent access and impede success.*

## CALENDAR DESCRIPTION

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Restricted to students in Massage Therapy

Students will study the structure and function of the central nervous system, with a focus on the anatomy of the brain, spinal cord, and autonomic nervous system. Students will study the anatomy and physiological mechanisms of the special senses, memory, emotion, and behaviour.

REQUISITE(S): One of: C in MASS 151; C in AET 320 and AET 440

## COURSE LEARNING OUTCOMES / OBJECTIVES

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- Describe the anatomy and physiology of the spinal cord and spinal reflexes
- Demonstrate the ability to evaluate motor skills and behaviour to inform assessment of neurological conditions and impairments
- Describe the gross anatomy and physiology of the brain, along with the divisions and subdivisions
- Describe the gross anatomy and physiology of the sensory nervous system

- Describe the anatomical features and physiological mechanisms of perception in the special senses, including olfaction, gustation, vision, hearing, and equilibrium
- Describe the higher function of the brain, including speech, memory, emotions, and behavioral functions
- Discuss the differences among motor skills and behavior with consideration across different ages and populations
- Describe the anatomical and physiological mechanisms of the autonomic nervous system and differentiate between the sympathetic and parasympathetic divisions

#### REQUIRED MATERIALS & RECOMMENDED PREPARATION / INFORMATION

##### Required:

Tortora, G., & Derrickson, B. (2014). *Principles of Anatomy & Physiology (14<sup>th</sup> edition)*. John Wiley & Sons

##### Supplementary

Lundy-Ekman, L. (2018). *Neuroscience: Fundamentals for Rehabilitation (5<sup>th</sup> Ed.)*. St. Louis: MI. Elsevier

#### COURSE SCHEDULE, TOPICS, AND ASSOCIATED PREPARATION / ACTIVITY / EVALUATION

##### Lectures:

Mondays: 4:30pm – 5:20pm Portable A, 101

Fridays: 8:30am – 9:20am LACC 124

##### Lab:

Friday: 9:30am-11:20am – LACC 121

Labs are bi-weekly alternating between group A and group B

Please pay attention to your lab day in the below schedule

The following schedule and course components are subject to change with reasonable advance notice, as deemed appropriate by the instructor.

	Topic	Lab
Week 1 Lecture: 1 & 2	<b>Monday Sept 5 – College Closed</b>	<b>Friday Sept 9 BOTH GROUP A &amp; B Lab 1: The Nervous System</b>
	<b>Friday Sept 9</b> Course Introduction and Review Review Nervous System Tissues Review Synapses	
Week 2 Lecture: 3 & 4	<b>Monday Sept 12</b> Major Divisions of the Brain Brain Stem	<b>Friday Sept 16 – GROUP B Friday Sept 23 – GROUP A Lab 2: The Brain</b>
	<b>Friday Sept 16</b> Cerebellum Diencephalon	
Week 3 Lecture: 5 & 6	<b>Monday Sept 19</b> The Cerebrum – Deep Nuclei The Cerebrum – Cerebral Cortex	
	<b>Friday Sept 23</b> The Cerebrum – Cerebral Cortex & Higher Order Functioning	

Week 4 Lecture: 7 & 8	<b>Monday Sept 26</b> Spinal Cord	<b>College closed Sept 30</b> <b>Friday Oct 7</b> <b>BOTH GROUP A &amp; B</b> <b>Lab 3:</b> Spinal Cord & Reflexes
	<b>Friday Sept 30 – College Closed</b>	
Week 5 Lecture: 9 & 10	<b>Monday Oct 3</b> Protective Coverings (Meninges and BBB)	<b>Friday Oct 14 – Group A</b> <b>Friday Oct 28 – Group B</b> <b>Lab 4:</b> Motor System
	<b>Friday Oct 7</b> Ventricles & CSF <b>Assignment 1 Due!</b>	
Week 6 Lecture: 11 & 12	<b>Monday Oct 10 – College Closed</b>	<b>Friday Oct 14 – Group A</b> <b>Friday Oct 28 – Group B</b> <b>Lab 4:</b> Motor System
Week 7 Lecture: 13 & 14	<b>Friday Oct 14</b> The Motor System: Motor Tracts	
Week 8	<b>MIDTERM WEEK</b>	
Week 9 Lecture: 15 & 16	<b>Monday Oct 24</b> The Motor Control System: Contributions of the Sensory System, Basal Ganglia, & Cerebellum	<b>Friday Oct 14 – Group A</b> <b>Friday Oct 28 – Group B</b> <b>Lab 4:</b> Motor System
	<b>Friday Oct 28</b> ANS: Divisions <b>Midterm Reflection Due!</b>	
Week 10 Lecture: 17 & 18	<b>Monday Oct 31</b> ANS: Neurotransmitters & Receptors	<b>Friday Nov 4</b> <b>Both Group A &amp; B</b> <b>Friday Nov 11 – College Closed</b> <b>Lab 5:</b> ANS
	<b>Friday Nov 4</b> ANS: Physiology & Function	
Week 11 Lecture: 19 & 20	<b>Monday Nov 7</b> ANS: Reflexes & Neurological Control	<b>Friday Nov 18 – Group B</b> <b>Friday Nov 25 – Group A</b> <b>Lab 6:</b> Somatosensory System
	<b>Fri Nov 11 – College Closed</b>	
Week 12 Lecture 21 & 22	<b>Monday Nov 14</b> Sensory Receptors & the Process of Sensation	<b>Friday Dec 2 – Group B</b> <b>Friday Dec 9 – Group A</b> <b>Lab 7:</b> Special Senses
	<b>Friday Nov 18</b> Pain Sensations & Proprioception	
Week 13 Lecture: 23 & 24	<b>Monday Nov 21</b> Sensory Tracts	<b>Friday Dec 2 – Group B</b> <b>Friday Dec 9 – Group A</b> <b>Lab 7:</b> Special Senses
	<b>Friday Nov 25</b> The Special Senses (Hearing) <b>Assignment 2 Due!</b>	
Week 14 Lecture: 25 & 26	<b>Monday Nov 28</b> The Special Senses (Equilibrium)	<b>Friday Dec 2 – Group B</b> <b>Friday Dec 9 – Group A</b> <b>Lab 7:</b> Special Senses
	<b>Friday Dec 2</b> The Special Senses (Vision)	
Week 15 Lecture 25 & 26	<b>Monday Dec 5</b> The Special Senses (Vision)	<b>Friday Dec 2 – Group B</b> <b>Friday Dec 9 – Group A</b> <b>Lab 7:</b> Special Senses
	<b>Friday Dec 9</b> The Special Senses (Olfaction & Gustatory)	

Students registered with the Centre for Accessible Learning (CAL) who complete quizzes, tests, and exams with academic accommodations have booking procedures and deadlines with CAL where advanced notice is required. Deadlines can be reviewed on the [CAL exams page](http://camosun.ca/services/accessible-learning/exams.html). <http://camosun.ca/services/accessible-learning/exams.html>

## EVALUATION OF LEARNING

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DESCRIPTION	WEIGHTING
Assignment 1 - Brain Condition Paper Due Friday October 7 <sup>th</sup> @ 11:59pm	20%
Assignment 2 - Case Report Due Friday November 25 <sup>th</sup> @ 11:59pm	15%
Midterm Reflection Due Friday October 28 <sup>th</sup> @ 11:59pm Pass/Fail	5%
Written Midterm Week 8	30%
Written Final Final Exam Period	30%
	<b>TOTAL</b>
	100%

If you have a concern about a grade you have received for an evaluation, please come and see me as soon as possible. Refer to the [Grade Review and Appeals](http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.14.pdf) policy for more information. <http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.14.pdf>

## COURSE GUIDELINES & EXPECTATIONS

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**Due Dates:** There will be a zero-tolerance in effect for missing due dates. All due dates are clearly listed in the schedule above. Students who might miss a deadline for legitimate reasons are to contact the instructor immediately and in advance of the due date.

Any assignments/quizzes that are submitted past the due date are subjected to a 10% deduction per day to a maximum of 3 days or 30%. After 3 days any submissions will receive a grade of zero.

## SCHOOL OR DEPARTMENTAL INFORMATION

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### Grading System

(If any changes are made to this part, then the Approved Course description must also be changed and sent through the approval process.)

(Mark with "X" in box below to show appropriate approved grading system – see last page of this template.)

Standard Grading System (GPA)

Competency Based Grading System

## Standard Grading System (GPA)

Percentage	Grade	Description	Grade Point Equivalency
90-100	A+		9
85-89	A		8
80-84	A-		7
77-79	B+		6
73-76	B		5
70-72	B-		4
65-69	C+		3
60-64	C		2
50-59	D		1
0-49	F	Minimum level has not been achieved.	0

## STUDENT RESPONSIBILITY

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Enrolment at Camosun assumes that the student will become a responsible member of the College community. As such, each student will display a positive work ethic, assist in the preservation of College property, and assume responsibility for their education by researching academic requirements and policies; demonstrating courtesy and respect toward others; and respecting expectations concerning attendance, assignments, deadlines, and appointments.

## SUPPORTS AND SERVICES FOR STUDENTS

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Camosun College offers a number of services to help you succeed in and out of the classroom. For a detailed overview of the supports and services visit <http://camosun.ca/students/>.

Support Service	Website
Academic Advising	<a href="http://camosun.ca/advising">http://camosun.ca/advising</a>
Accessible Learning	<a href="http://camosun.ca/accessible-learning">http://camosun.ca/accessible-learning</a>
Counselling	<a href="http://camosun.ca/counselling">http://camosun.ca/counselling</a>
Career Services	<a href="http://camosun.ca/coop">http://camosun.ca/coop</a>
Financial Aid and Awards	<a href="http://camosun.ca/financialaid">http://camosun.ca/financialaid</a>
Help Centres (Math/English/Science)	<a href="http://camosun.ca/help-centres">http://camosun.ca/help-centres</a>
Indigenous Student Support	<a href="http://camosun.ca/indigenous">http://camosun.ca/indigenous</a>
International Student Support	<a href="http://camosun.ca/international/">http://camosun.ca/international/</a>
Learning Skills	<a href="http://camosun.ca/learningskills">http://camosun.ca/learningskills</a>
Library	<a href="http://camosun.ca/services/library/">http://camosun.ca/services/library/</a>

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Support Service	Website
Office of Student Support	<a href="http://camosun.ca/oss">http://camosun.ca/oss</a>
Ombudsperson	<a href="http://camosun.ca/ombuds">http://camosun.ca/ombuds</a>
Registration	<a href="http://camosun.ca/registration">http://camosun.ca/registration</a>
Technology Support	<a href="http://camosun.ca/its">http://camosun.ca/its</a>
Writing Centre	<a href="http://camosun.ca/writing-centre">http://camosun.ca/writing-centre</a>

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If you have a mental health concern, please contact Counselling to arrange an appointment as soon as possible. Counselling sessions are available at both campuses during business hours. If you need urgent support after-hours, please contact the Vancouver Island Crisis Line at 1-888-494-3888 or call 911.

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## COLLEGE-WIDE POLICIES, PROCEDURES, REQUIREMENTS, AND STANDARDS

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### Academic Accommodations for Students with Disabilities

The College is committed to providing appropriate and reasonable academic accommodations to students with disabilities (i.e. physical, depression, learning, etc). If you have a disability, the [Centre for Accessible Learning](#) (CAL) can help you document your needs, and where disability-related barriers to access in your courses exist, create an accommodation plan. By making a plan through CAL, you can ensure you have the appropriate academic accommodations you need without disclosing your diagnosis or condition to course instructors. Please visit the CAL website for contacts and to learn how to get started:

<http://camosun.ca/services/accessible-learning/>

### Academic Integrity

Please visit <http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.13.pdf> for policy regarding academic expectations and details for addressing and resolving matters of academic misconduct.

### Academic Progress

Please visit <http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.1.pdf> for further details on how Camosun College monitors students' academic progress and what steps can be taken if a student is at risk of not meeting the College's academic progress standards.

### Course Withdrawals Policy

Please visit <http://camosun.ca/about/policies/education-academic/e-2-student-services-and-support/e-2.2.pdf> for further details about course withdrawals. For deadline for fees, course drop dates, and tuition refund, please visit <http://camosun.ca/learn/fees/#deadlines>.

### Grading Policy

Please visit <http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.5.pdf> for further details about grading.

### Grade Review and Appeals

Please visit <http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.14.pdf> for policy relating to requests for review and appeal of grades.

### Mandatory Attendance for First Class Meeting of Each Course

Camosun College requires mandatory attendance for the first class meeting of each course. If you do not attend, and do not provide your instructor with a reasonable reason in advance, you will be removed from the course and the space offered to the next waitlisted student. For more information, please see the “Attendance” section under “Registration Policies and Procedures” (<http://camosun.ca/learn/calendar/current/procedures.html>) and the Grading Policy at <http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.5.pdf>.

### Medical / Compassionate Withdrawals

Students who are incapacitated and unable to complete or succeed in their studies by virtue of serious and demonstrated exceptional circumstances may be eligible for a medical/compassionate withdrawal. Please visit <http://camosun.ca/about/policies/education-academic/e-2-student-services-and-support/e-2.8.pdf> to learn more about the process involved in a medical/compassionate withdrawal.

### Sexual Violence and Misconduct

Camosun is committed to creating a campus culture of safety, respect, and consent. Camosun’s Office of Student Support is responsible for offering support to students impacted by sexual violence. Regardless of when or where the sexual violence or misconduct occurred, students can access support at Camosun. The Office of Student Support will make sure students have a safe and private place to talk and will help them understand what supports are available and their options for next steps. The Office of Student Support respects a student’s right to choose what is right for them. For more information see Camosun’s Sexualized Violence and Misconduct Policy: <http://camosun.ca/about/policies/education-academic/e-2-student-services-and-support/e-2.9.pdf> and [camosun.ca/sexual-violence](http://camosun.ca/sexual-violence). To contact the Office of Student Support: [oss@camosun.ca](mailto:oss@camosun.ca) or by phone: 250-370-3046 or 250-3703841

### Student Misconduct (Non-Academic)

Camosun College is committed to building the academic competency of all students, seeks to empower students to become agents of their own learning, and promotes academic belonging for everyone. Camosun also expects that all students to conduct themselves in a manner that contributes to a positive, supportive, and safe learning environment. Please review Camosun College’s Student Misconduct Policy at <http://camosun.ca/about/policies/education-academic/e-2-student-services-and-support/e-2.5.pdf> to understand the College’s expectations of academic integrity and student behavioural conduct.

**Changes to this Syllabus:** Every effort has been made to ensure that information in this syllabus is accurate at the time of publication. The College reserves the right to change courses if it becomes necessary so that course content remains relevant. In such cases, the instructor will give the students clear and timely notice of the changes.