

## Block view of the study programme

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### Block 1

#### Information

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The specialised master in Neurosurgery includes one year of specialised master in Neurology, one year of specialised master in Surgery and four years of neurosurgery. The neurosurgery and surgery years are spread over the first two years of the internship plan introduced by the Commission Francophone d'Agrément en Neurochirurgie. Students are required to be confirmed for each year in line with the respective conditions for these two specialised masters with regard to classes and the evaluations.

#### Collegiality

President: Didier MARTIN  
Secretary: Annie DUBUISSON  
Members: Quentin DEWANDRE, Bruno KASCHTEN, Arnaud LOMBARD, Tudor RACARU, Gilles REUTER, Anne-Laure SALADO, Félix SCHOLTES.

#### Optional courses

**Choose one different module for each block in the two first years (Block 1 and Block 2) and following approval of the internship plan by the Neurosurgery Certification Committee:**

#### Neurology module

NEUR2038-1	<i>University and interuniversity courses including seminars, B1</i> - <i>Physiopathological aspects (including neuropathological and genetic aspects), diagnoses, prognoses of neurological conditions</i> - COLLÉGIALITÉ - <i>In-depth study of neurological pathologies, diagnostic techniques and specific therapies</i> - COLLÉGIALITÉ - <i>Seminars</i> - COLLÉGIALITÉ - [50h SEM]	TA	30	-	-	10
			15	-	-	
			-	-	[+]	
NEUR2115-1	<i>Supervised exercises in Neurology, B1</i> - <i>Supervised exercises including in neurophysiology</i> - COLLÉGIALITÉ - <i>Bedside learning</i> - COLLÉGIALITÉ	TA	-	90	-	23
			-	150	-	
REAN0753-1	<i>ALS: managing adult cardiac arrests, before, during, after</i> - Benoît CARDOS	TA	-	16	-	1
SIMU0115-1	<i>Procedural workshops and applied simulation in Neurology, Block 1</i> - Pierre MAQUET	TA	-	8	-	1

#### Compulsory Training

MSTG2003-1	<i>Training in clinical practice including on-duty in Neurology, B1</i> - COLLÉGIALITÉ - [11half-d Internship]	TA	-	-	[+]	25
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#### Surgery module

CHIR2100-1	<i>Interuniversity theory courses including seminars, B1</i> - <i>Interuniversity training</i> - COLLÉGIALITÉ - <i>Postgraduate seminars from the Royal Belgian Society of Surgery</i> - COLLÉGIALITÉ - [20h SEM] - <i>Weekly seminars organised by the different internship departments</i> - COLLÉGIALITÉ - [40h SEM]	TA	45	-	-	10
			-	-	[+]	
			-	-	[+]	
CHIR2045-1	<i>Drafting and presentation of scientific work, Block 1</i> - COLLÉGIALITÉ	TA	-	-	-	5
CHIR2146-1	<i>Supervised exercises in surgery, B1</i> - <i>Introduction to operating techniques in operating rooms</i> - COLLÉGIALITÉ - <i>Introduction to new techniques (videoscapy, pre-operative ultrasound,</i>	TA	-	150	-	15
			-	150	-	

	<i>microsurgical techniques, surgery</i> ) - COLLÉGIALITÉ				
	- <i>Bedside learning</i> - COLLÉGIALITÉ		-	50	-
SIMU0111-1	<i>Procedural workshops and applied simulation in Surgery, Block 1</i> - Olivier DETRY	TA	-	48	- 5

#### Compulsory Training

MSTG0023-1	<i>Training in clinical practice, including on-duty in surgery and accident and emergency, B1</i> - COLLÉGIALITÉ - [11half-d Internship]	TA	-	-	[+] 25
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#### Block 2

##### Optional courses

Choose one module that has not been taken in block 1:

##### Neurology module

NEUR2038-1	<i>University and interuniversity courses including seminars, B1</i> - <i>Physiopathological aspects (including neuropathological and genetic aspects), diagnoses, prognoses of neurological conditions</i> - COLLÉGIALITÉ - <i>In-depth study of neurological pathologies, diagnostic techniques and specific therapies</i> - COLLÉGIALITÉ - <i>Seminars</i> - COLLÉGIALITÉ - [50h SEM]	TA	30	-	- 10
NEUR2115-1	<i>Supervised exercises in Neurology, B1</i> - <i>Supervised exercises including in neurophysiology</i> - COLLÉGIALITÉ - <i>Bedside learning</i> - COLLÉGIALITÉ	TA	-	90	- 23
REAN0753-1	<i>ALS: managing adult cardiac arrests, before, during, after</i> - Benoît CARDOS	TA	-	16	- 1
SIMU0115-1	<i>Procedural workshops and applied simulation in Neurology, Block 1</i> - Pierre MAQUET	TA	-	8	- 1

#### Compulsory Training

MSTG2003-1	<i>Training in clinical practice including on-duty in Neurology, B1</i> - COLLÉGIALITÉ - [11half-d Internship]	TA	-	-	[+] 25
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##### Surgery module

CHIR2100-1	<i>Interuniversity theory courses including seminars, B1</i> - <i>Interuniversity training</i> - COLLÉGIALITÉ - <i>Postgraduate seminars from the Royal Belgian Society of Surgery</i> - COLLÉGIALITÉ - [20h SEM] - <i>Weekly seminars organised by the different internship departments</i> - COLLÉGIALITÉ - [40h SEM]	TA	45	-	- 10
CHIR2045-1	<i>Drafting and presentation of scientific work, Block 1</i> - COLLÉGIALITÉ	TA	-	-	- 5
CHIR2146-1	<i>Supervised exercises in surgery, B1</i> - <i>Introduction to operating techniques in operating rooms</i> - COLLÉGIALITÉ - <i>Introduction to new techniques (videoscopy, pre-operative ultrasound, microsurgical techniques, surgery)</i> - COLLÉGIALITÉ - <i>Bedside learning</i> - COLLÉGIALITÉ	TA	-	150	- 15
SIMU0111-1	<i>Procedural workshops and applied simulation in Surgery, Block 1</i> - Olivier DETRY	TA	-	48	- 5

#### Compulsory Training

MSTG0023-1	<i>Training in clinical practice, including on-duty in surgery and accident and emergency, B1</i> - COLLÉGIALITÉ - [11half-d Internship]	TA	-	-	[+] 25
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#### Block 3

##### Compulsory courses

NEUR2108-1	<i>Theory courses, B3</i>	TA			5
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	- <i>Neuro-anatomy and normal and pathological physiology</i> - COLLÉGIALITÉ	4	-	-	
	- <i>Neuro-imaging</i> - COLLÉGIALITÉ	4	-	-	
	- <i>Cranial traumatology</i> - COLLÉGIALITÉ	4	-	-	
	- <i>Spinal traumatology</i> - COLLÉGIALITÉ	4	-	-	
	- <i>Infection of the central nervous system</i> - COLLÉGIALITÉ	4	-	-	
	- <i>Functional neurosurgery (epilepsy, abnormal movements, pain)</i> - COLLÉGIALITÉ	4	-	-	
	- <i>Neuro-oncology</i> - COLLÉGIALITÉ	4	-	-	
	- <i>Vascular pathology</i> - COLLÉGIALITÉ	4	-	-	
	- <i>Spinal and medullary pathologies</i> - COLLÉGIALITÉ	4	-	-	
	- <i>Developmental abnormalities and hydrocephaly</i> - COLLÉGIALITÉ	4	-	-	
	- <i>Pathology of the peripheral nervous system</i> - COLLÉGIALITÉ	4	-	-	
NEUR0115-1	<i>Supervised exercises in Neurosurgery, B3</i>	TA			<b>20</b>
	- <i>Learning in the operating room</i> - COLLÉGIALITÉ - [160h PBL]	-	-	[+]	
	- <i>Exercises at the patient's bedside</i> - COLLÉGIALITÉ	-	80	-	
NEUR2114-1	<i>Neurosurgery seminars, B3</i>	TA			<b>5</b>
	- <i>Interuniversity neurosurgery seminars</i> - COLLÉGIALITÉ - [15h SEM]	-	-	[+]	
	- <i>Continued university training sessions in neurosurgery</i> - COLLÉGIALITÉ - [15h SEM]	-	-	[+]	
	- <i>Sessions by the Belgian Society for Neurosurgery</i> - COLLÉGIALITÉ - [15h SEM]	-	-	[+]	
MSTG2030-6	<i>Training in clinical practice including on-duty in neurosurgery, B3</i> - [11half-d Internship]	TA	-	-	[+] <b>25</b>
NEUR0009-3	<i>Drafting and presentation of scientific publications, B3</i> - COLLÉGIALITÉ	TA	-	-	- <b>5</b>

#### Block 4

##### Compulsory courses

NEUR2408-1	<i>Theory courses, B4</i>	TA			<b>5</b>
	- <i>Neuroanatomy and normal and pathologic physiology</i> - COLLÉGIALITÉ	4	-	-	
	- <i>Neuroimaging</i> - COLLÉGIALITÉ	4	-	-	
	- <i>Cranial traumatology</i> - COLLÉGIALITÉ	4	-	-	
	- <i>Spinal traumatology</i> - COLLÉGIALITÉ	4	-	-	
	- <i>Infection of the central nervous system</i> - COLLÉGIALITÉ	4	-	-	
	- <i>Functional neurosurgery (epilepsy, abnormal movements, pain)</i> - COLLÉGIALITÉ	4	-	-	
	- <i>Neuro-oncology</i> - COLLÉGIALITÉ	4	-	-	
	- <i>Vascular pathology</i> - COLLÉGIALITÉ	4	-	-	
	- <i>Spinal and medullary pathology</i> - COLLÉGIALITÉ	4	-	-	
	- <i>Developmental abnormalities and hydrocephaly</i> - COLLÉGIALITÉ	4	-	-	
	- <i>Pathologies of the peripheral nervous system</i> - COLLÉGIALITÉ	4	-	-	
NEUR2414-1	<i>Neurosurgery seminars, B4</i>	TA			<b>5</b>
	- <i>Interuniversity neurosurgery seminars</i> - COLLÉGIALITÉ - [15h SEM]	-	-	[+]	
	- <i>Continued university training sessions in neurosurgery</i> - COLLÉGIALITÉ - [15h SEM]	-	-	[+]	
	- <i>Sessions by the Belgian Society for Neurosurgery</i> - COLLÉGIALITÉ - [15h SEM]	-	-	[+]	
NEUR0415-1	<i>Supervised exercises in Neurosurgery, B4</i>	TA			<b>20</b>
	- <i>Learning in the operating room</i> - COLLÉGIALITÉ	-	160	-	
	- <i>Exercises at the patient's bedside</i> - COLLÉGIALITÉ	-	80	-	
NEUR0009-1	<i>Drafting and presentation of scientific publications, B4</i> - COLLÉGIALITÉ	TA	-	-	- <b>5</b>

##### Compulsory Training

MSTG2030-5	<i>Training in clinical practice including on-duty in neurosurgery, B4</i> - COLLÉGIALITÉ - [11half-d Internship]	TA	-	-	[+] <b>25</b>
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#### Block 5

##### Compulsory courses

NEUR2508-1	<i>Theory courses, B5</i>	TA			<b>5</b>
	- <i>Neuroanatomy and normal and pathologic physiology</i> - COLLÉGIALITÉ	4	-	-	
	- <i>Neuroimaging</i> - COLLÉGIALITÉ	4	-	-	
	- <i>Cranial traumatology</i> - COLLÉGIALITÉ	4	-	-	
	- <i>Spinal traumatology</i> - COLLÉGIALITÉ	4	-	-	
	- <i>Infection of the central nervous system</i> - COLLÉGIALITÉ	4	-	-	
	- <i>Functional neurosurgery (epilepsy, abnormal movements, pain)</i> - COLLÉGIALITÉ	4	-	-	
	- <i>Neuro-oncology</i> - COLLÉGIALITÉ	4	-	-	
	- <i>Vascular pathology</i> - COLLÉGIALITÉ	4	-	-	
	- <i>Spinal and medullary pathology</i> - COLLÉGIALITÉ	4	-	-	
	- <i>Developmental abnormalities and hydrocephaly</i> - COLLÉGIALITÉ	4	-	-	
	- <i>Pathologies of the peripheral nervous system</i> - COLLÉGIALITÉ	4	-	-	
NEUR2514-1	<i>Neurosurgery seminars, B5</i>	TA			<b>5</b>
	- <i>Interuniversity neurosurgery seminars</i> - COLLÉGIALITÉ - [15h SEM]	-	-	[+]	
	- <i>Continued university training sessions in neurosurgery</i> - COLLÉGIALITÉ - [15h SEM]	-	-	[+]	
	- <i>Sessions by the Belgian Society for Neurosurgery</i> - COLLÉGIALITÉ - [15h SEM]	-	-	[+]	
NEUR0515-1	<i>Supervised exercises in Neurosurgery, B5</i>	TA			<b>20</b>
	- <i>Learning in the operating room</i> - COLLÉGIALITÉ	-	160	-	
	- <i>Exercises at the patient's bedside</i> - COLLÉGIALITÉ	-	80	-	
NEUR0009-2	<i>Drafting and presentation of scientific publications, B5</i> - COLLÉGIALITÉ	TA	-	-	<b>5</b>
<b>Compulsory Training</b>					
MSTG2030-7	<i>Training in clinical practice including on-duty in neurosurgery, B5</i> - COLLÉGIALITÉ - [11half-d Internship]	TA	-	-	[+] <b>25</b>

#### Block 6

##### Compulsory courses

NEUR2608-1	<i>Theory courses, B6</i>	TA			<b>5</b>
	- <i>Neuroanatomy and normal and pathologic physiology</i> - COLLÉGIALITÉ	4	-	-	
	- <i>Neuroimaging</i> - COLLÉGIALITÉ	4	-	-	
	- <i>Cranial traumatology</i> - COLLÉGIALITÉ	4	-	-	
	- <i>Spinal traumatology</i> - COLLÉGIALITÉ	4	-	-	
	- <i>Infection of the central nervous system</i> - COLLÉGIALITÉ	4	-	-	
	- <i>Functional neurosurgery (epilepsy, abnormal movements, pain)</i> - COLLÉGIALITÉ	4	-	-	
	- <i>Neuro-oncology</i> - COLLÉGIALITÉ	4	-	-	
	- <i>Vascular pathology</i> - COLLÉGIALITÉ	4	-	-	
	- <i>Spinal and medullary pathology</i> - COLLÉGIALITÉ	4	-	-	
	- <i>Developmental abnormalities and hydrocephaly</i> - COLLÉGIALITÉ	4	-	-	
	- <i>Pathologies of the peripheral nervous system</i> - COLLÉGIALITÉ	4	-	-	
NEUR2614-1	<i>Seminar in neurosurgery, B6</i>	TA			<b>5</b>
	- <i>Interuniversity seminars in neurosurgery</i> - COLLÉGIALITÉ - [15h SEM]	-	-	[+]	
	- <i>University continuing education sessions in neurosurgery</i> - COLLÉGIALITÉ - [15h SEM]	-	-	[+]	
	- <i>Sessions by the Belgian Society for Neurosurgery</i> - COLLÉGIALITÉ - [15h SEM]	-	-	[+]	
NEUR0615-1	<i>Supervised exercises in Neurosurgery, B6</i>	TA			<b>10</b>
	- <i>Learning in the operating room</i> - COLLÉGIALITÉ	-	120	-	
	- <i>Exercises at the patient's bedside</i> - COLLÉGIALITÉ	-	40	-	
MTFE2034-1	<i>Final piece of work presented as part of certification</i> - COLLÉGIALITÉ	TA	-	-	<b>15</b>
MEDE3001-1	<i>Cross-cutting courses: Patient communication, quality of care, factual medicine, electronic data management and clinical leadership</i> - Vincent BONHOMME, COLLÉGIALITÉ - [16h SEM]	TA	-	-	[+] <b>5</b>

**Compulsory Training**

MSTG2030-2 *Training in clinical practice including on-duty in neurosurgery, B6 -* TA - - [+] **20**  
COLLÉGIALITÉ - [11half-d Internship]