

**Plan d'études 2022-2024**  
**Master of Arts HES-SO in Conservation-Restoration**  
**120 ECTS**

Haute Ecole Arc  
Conservation-restauration  
Espace de l'Europe 11  
CH-2000 Neuchâtel  
conservation-restauration@he-arc.ch

Module	Unit CRAE	Coef unit CRAE	Unit CROSTH	Coef unit CROSTH	Unit title	Teacher	Course hours CRAE	Course hours CROSTH	ECTS per semester				
									120				
									ECTS S1	ECTS S2	ECTS S3	ECTS S4	
<b>MTC6</b>									<b>52</b>	<b>52</b>	<b>5</b>		
	MTC6.1	-	MTC6.1	-	Principles to Practice: The Role of the Conservator-Restorer - preparatory work	TSC	12	12					
	MTC6.2	-	MTC6.2	-	Principles to Practice: The Role of the Conservator-Restorer - course	TSC	32	32					
	MTC6.3	1.0	MTC6.3	1.0	Principles to Practice: The Role of the Conservator-Restorer - final assessment	TSC	8	8					
<b>MTC9</b>									<b>72</b>	<b>60</b>	<b>5</b>		
	MTC9.1-AE	0.5	MTC9.1-STH	0.1	Glasses and mosaics	Fiol (HDE (24h)), Chantriaux (8h)	32	8					
	MTC9.2-AE	0.2	MTC9.2-STH	0.3	Organic materials - plant fibers	Goron	16	16					
	MTC9.3-AE	0.3	MTC9.3-STH	0.4	"Object as document" Humanities and Objects' investigation.	RBE	24	24					
			MTC9.4-STH	0.2	Horology history and styles / Functional description of mechanisms	TSC		12					
<b>MWP6</b>									<b>72</b>	<b>94</b>	<b>5</b>		
	MWP6.1-AE	1.0			Glasses 1	Fiol (HDE)	72						
			MWP6.1-STH	1.0	Technical and scientific objects 3	GRA TSC Expert à déf.		40 32 22					
<b>MWP7</b>									<b>74</b>	<b>84</b>	<b>5</b>		
	MWP7.1-AE	1.0			Glasses 2	Fiol (HDE)	54						
			MWP7.1-STH	1.0	Technical and scientific objects 4	GRA Sauter		24 24					
	MWP7.2	-	MWP7.2	-	Enzymes	Braekman Cremonesi	20	20					
<b>MWP8</b>									<b>112</b>	<b>88</b>	<b>5</b>		
	MWP8.1-AE	1.0			Organic materials - plant fibers 1	Goron (avec RBE 8h)	84						
			MWP8.1-STH	1.0	Technical and scientific objects 5	Cuendet	28	48 8 8 24					
<b>MWP9</b>									<b>100</b>	<b>76</b>	<b>5</b>		
	MWP9.1	0.3	MWP9.1	0.4	Introduction to electrochemical treatments in conservation	CDE	32	32					
	MWP9.2	0.2	MWP9.2	0.3	Complexing agents in CR	RBE	20	20					
	MWP9.3	0.2	MWP9.3	0.2	Complexing agents in CR - tests	à déf.	4-8	4-8					
					Polymers	Rouzet	8	8					
	MWP9.4-AE	0.2			Preservation of painted layers	ANG	8	8					
	MWP9.5-AE	0.2			Conservation on site	Tissier	16						
			MWP9.5-STH	0.1	Stone, mortar, mural painting, rock art 1	Guyot	16						
					Introduction to tribology in CR	TSC		8					
<b>MTC5</b>									<b>38</b>	<b>60</b>	<b>5</b>		
	MTC5.1-AE	0.9	MTC5.1-STH	0.4	Metals and alloys	VBO	20	20					
					Metals and alloys	JSC	2	2					
					Mineral fibers identification	Rast	4						
					Numismatic	Frey	4						
	MTC5.2-AE	0.1	MTC5.2-STH	0.1	Modern alloys	CDE	8	8					
			MTC5.3-STH	0.5	Horological / electrical objects	TSC		30					
<b>MTC7</b>									<b>48</b>	<b>48</b>	<b>5</b>		
	MTC7.1	0.4	MTC7.1	0.4	Scientific analysis in conservation	CDE	24	24					
	MTC7.2	0.3	MTC7.2	0.3	Microscopy	CDE	8	8					
	MTC7.2		MTC7.2		Microscopy	Scherrer	8	8					
	MTC7.3	0.3	MTC7.3	0.3	Crystallography / metallography	CDE	8	8					
<b>MTC8</b>									<b>52</b>	<b>52</b>	<b>5</b>		
	MTC8.1	-	MTC8.1	-	Developing and Evaluating Treatment Interventions: Cleaning - preparatory work	EJO	12	12					
	MTC8.2	1.0	MTC8.2	1.0	Developing and Evaluating Treatment Interventions: Cleaning	EJO	32	32					
	MTC8.3	-	MTC8.3	-	Developing and Evaluating Treatment Interventions: Cleaning - final assessment	EJO	8	8					
<b>MTH1</b>									<b>12</b>	<b>12</b>	<b>5</b>		
	MTH1	1.0	MTH1	1.0	Master's thesis 1	RBE / VBO / TSC	12	12					
<b>MWP4</b>									<b>180</b>	<b>162</b>	<b>5</b>		
	MWP4.1-AE	0.9	MWP4.1-STH	-	Metals and alloys 1	VBO	126	12					
						RJE	6	6					
						CDE	16						
						RBE	16						
						VBO/CDE/RBE	8						
	MWP4.2-AE	0.1	MWP4.2-STH	0.1	Hammering	a Marca	8	8					
			MWP4.3-STH	0.9	Horology 1	TSC		104					
						Fontaine		24					
						RBE		8					

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							hours CRAE	hours CROSTH				
<b>MWP5</b>							<b>144</b>	<b>144</b>	<b>5</b>			
	MWP5.1-AE	1.0	MWP5.1-STH	0.1	Metals and alloys 2	VBO	144	8				
			MWP5.3-STH	0.7	Horology 2	TSC		82				
			MWP5.4-STH	0.2	Electrical objects	Fontaine GRA	0	24 30				
<b>MTC1</b>							<b>52</b>	<b>36</b>	<b>5</b>			
	MTC1.1-AE	0.5			Ceramics	HDE	24					
	MTC1.2-AE	0.4	MTC1.2-STH	0.7	Organic materials - animal fibers	CAL	20	20				
	MTC1.3-AE	0.1	MTC1.3-STH	0.1	Naturalia	Cuisin	8	8				
			MTC1.1-STH	0.2	Conservation of objects used in public transport	Meyer zu Bargholz		8				
<b>MTC2</b>							<b>52</b>	<b>52</b>	<b>5</b>			
	MTC2.1	-	MTC2.1	-	Research skills for conservation-restoration - preparatory work	CDE	12	12				
	MTC2.2	1.0	MTC2.2	1.0	Research skills for conservation-restoration	CDE	32	32				
	MTC2.3	-	MTC2.3	-	Research skills for conservation-restoration - final assessment	CDE	8	8				
<b>MTC3</b>							<b>32</b>	<b>56</b>	<b>5</b>			
	MTC3.1-AE	0.8			Society, objects and collections	AGM	24					
			MTC3.1-STH	0.9	History of sciences and techniques	JBO		48				
	MTC3.3-AE	2.0	MTC3.3-STH	0.1	Conservation issues in Museum exhibitions: from showcases design to installation of objects	Vasquez J.	8	8				
<b>MWP1</b>							<b>136</b>	<b>124</b>	<b>5</b>			
	MWP1.1-AE	1.0			Ceramics 1	Fiol (HDE)	112					
						HDE	16					
			MWP1.1-STH	1.0	Technical and scientific objects 1	RBE GRA TSC RBE		8 84 32 8				
<b>MWP2</b>							<b>104</b>	<b>104</b>	<b>5</b>			
	MWP2.1-AE	0.4			Ceramics 2	Fiol (HDE)	40					
	MWP2.2-AE	0.4	MWP2.2-STH	0.5	Colour and retouching	ANG	40	40				
			MWP2.1-STH	0.2	Infography	ANG (HDE) RJE		16 24				
	MWP2.3-AE	0.2	MWP2.3-STH	0.3	Conservation and restoration in geosciences	Vasilyan	24	24				
<b>MWP3</b>							<b>116</b>	<b>116</b>	<b>5</b>			
	MWP3.1-AE	0.9			Organic materials - animal fibers	CAL	60					
						Bonnot-Diconne	40					
			MWP3.1-STH	0.9	Technical and scientific objects 2	GRA TSC		92 8				
	MWP3.2-STH	0.1	MWP3.2-STH	0.1	Microanalysis - materials characterisation	EJO	16	16				
<b>MTC4</b>							<b>52</b>	<b>52</b>	<b>5</b>			
	MTC4.1	-	MTC4.1	-	Managing Conservation-Restoration Projects - preparatory work	James	8	8				
	MTC4.2	1.0	MTC4.2	1.0	Managing Conservation-Restoration Projects	James	32	32				
	MTC4.3	-	MTC4.3	-	Managing Conservation-Restoration Projects - final assessment	James	12	12				
<b>MTH2</b>							<b>0</b>	<b>0</b>	<b>25</b>			
	MTH2	1.0	Thesis	1.0		RJE, RBE, VBO, TSC, CDE	0	0				

CRAE : archaeological and ethnological objects

CROSTH : scientific, technical and horological objects

1 course hour = 60 minutes, 5 ECTS = about 150 Student Working Hours

All courses but the scientific platform (MWPx- PFS) are evaluated on a regular basis (written or oral examinations, written documentations, exercises and laboratories or presence)