

**Plan d'études 2023-2025**  
**Master of Arts HES-SO in Conservation-Restoration**  
**120 ECTS**

Haute Ecole Arc  
Conservation-restauration  
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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>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>56</b>	<b>80</b>	<b>5</b>		
	MTC3.1-AE	0.4			Society, objects and collections	AGM	24						
			MTC3.1-STH	0.6	History of sciences and techniques	JBO		48					
	MTC3.2-AE	0.5	MTC3.2-STH	0.3	"Object as document" Humanities and Objects' investigation.	RBE, unine	24	24					
	MTC3.3-AE	0.1	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	8						
						GRA		84					
						TSC		32					
						RBE		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)		16					
	MWP2.3-AE	0.2	MWP2.3-STH	0.3	Conservation and restoration in geosciences	RJE	24	24					
						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		92					
						TSC		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>MTC5</b>									<b>38</b>	<b>60</b>	<b>5</b>		
	MTC5.1-AE	0.8	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	0.2	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					
					Microscopy	Scherrer	8	8					
	MTC7.3	0.3	MTC7.3	0.3	Crystallography / metallography	CDE	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					
						à déf.		24					
						RBE		8					
<b>MWP5</b>									<b>144</b>	<b>160</b>	<b>5</b>		
	MWP5.1-AE	1.0			Metals and alloys 2	VBO	144						
			MWP5.1-STH	0.8	Horology 2	TSC		82					
						Fontaine		48					
			MWP5.2-STH	0.2	Electrical objects	GRA	0	30					

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<b>MTC6</b>					<b>Theory of conservation-restoration 6 - Common course</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>Theory of conservation-restoration 9</b>		<b>48</b>	<b>36</b>			<b>5</b>	
	MTC9.1-AE	3.0	MTC9.1-STH	0.2	Glasses and mosaics	HDE (24h), Chantriaux (8h)	32	8				
	MTC9.2-AE	1.0	MTC9.2-STH	0.4	Organic materials - plant fibers	Goron	16	16				
			MTC9.4-STH	0.4	Horology history and styles / Functional description of mechanisms	TSC		12				
<b>MWP6</b>					<b>Conservation-restoration workshop 6</b>		<b>72</b>	<b>94</b>			<b>5</b>	
	MWP6.1-AE	1.0			Glasses 1	HDE	72					
			MWP6.1-STH	1.0	Technical and scientific objects 3	GRA TSC Expert à déf.		40 32 22				
<b>MWP7</b>					<b>Conservation-restoration workshop 7</b>		<b>74</b>	<b>84</b>			<b>5</b>	
	MWP7.1-AE	1.0			Glasses 2	HDE	54					
			MWP7.1-STH	1.0	Technical and scientific objects 4	GRA Sauter Braekman Cremonesi		24 24 16 20				
	MWP7.2	-	MWP7.2	-	Enzymes		20	20				
<b>MWP8</b>					<b>Conservation-restoration workshop 8</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 GRA RJE RBE Meyer zu Bargholz		28 48 8 8 24				
<b>MWP9</b>					<b>Conservation-restoration workshop 9</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				
	MWP9.4-AE	0.2			Polymers	Rouzet	8	8				
	MWP9.5-AE	0.2			Preservation of painted layers	ANG	8	8				
					Conservation on site	Tissier	16					
					Stone, mortar, mural painting, rock art 1	Guyot	16					
			MWP9.4-STH	0.1	Introduction to tribology in CR	TSC		8				
<b>MTC8</b>					<b>Theory of conservation-restoration 8 - Common course</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>MTH2</b>					<b>Master's thesis 2</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)