

**Plan d'études 2021-2023**  
**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	Alembik	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	HDE	128							
			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	HDE	40							
	MWP2.2-AE	0.4	MWP2.2-STH	0.5	Colour and retouching	ANG	40	40						
			MWP2.1-STH	0.2	Infography	HDE RJE	 16 24							
	MWP2.3-AE	0.2	MWP2.3-STH	0.3	Conservation and restoration in geosciences	Becker	24	24						
<b>MWP3</b>									<b>116</b>	<b>116</b>	<b>5</b>			
	MWP3.1-AE	0.9			Organic materials - animal fibers	Alembik	60							
						Bonnot-Diconne	40							
			MWP3.1-STH	0.9	Technical and scientific objects 2	GRA Fritschi TSC	 68 24 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	RBE	8	8						
	MTC4.2	1.0	MTC4.2	1.0	Managing Conservation-Restoration Projects	RBE	32	32						
	MTC4.3	-	MTC4.3	-	Managing Conservation-Restoration Projects - final assessment	RBE	12	12						
<b>MTC5</b>									<b>38</b>	<b>60</b>	<b>5</b>			
	MTC5.1-AE	0.8	MTC5.1-STH	0.3	Metals and alloys	VBO	20	20						
					Metals and alloys	JSC	2	2						
	MTC5.2-AE	0.1			Mineral fibers identification	Rast	4							
	MTC5.3-AE	0.1			Numismatic	Frey	4							
			MTC5.2-STH	0.5	Horological / electrical objects	TSC		30						
			MTC5.3-STH	0.2	Modern alloys	CDE	8	8						
<b>MTC7</b>									<b>47</b>	<b>47</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	7	7						
	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 RJE CDE RBE	126 6 16 16	12 6 6						
						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 à déf. RBE	 104 24 8							
<b>MWP5</b>									<b>150</b>	<b>144</b>	<b>5</b>			
	MWP5.1-AE	1.0	MWP5.1-STH	0.1	Metals and alloys 2	VBO	150	8						
			MWP5.3-STH	0.7	Horology 2	TSC à déf.	 82 24							
			MWP5.4-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	Fiol (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	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>Conservation-restoration workshop 7</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 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		RBE, HDE, 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)