

### Bachelor of Arts HES-SO in Conservation, 180 ECTS, 2025-2028

All courses are evaluated on a regular basis (written or oral examinations, written documentations, exercises and laboratories, presence).

conservation-restauration@he-arc.ch, +41 (0)32 930 19 19

							ECTS pro Semester					
							180					
							24	36	24	36	33	30
							S1	S2	S3	S4	S5	S6
Module	SWH <sup>1</sup> Coef unit	Module / Unit titel	Courses description	Teacher	Course hours <sup>2</sup>							
<b>AC1</b>	<b>180</b>	<b>Conservation 1</b>			<b>84</b>	<b>6</b>						
AC1.1	0.4	Managing collections and their environment 1	Physics of buildings Environmental basics: Relative Humidity, Temperature. <u>Measurements and tools</u> Principles of preventive conservation. Interaction of objects with their environment.	TJA	12							
			Processus, documentation and terminology in CR	RBE	4							
				ACU	2							
AC1.2	0.4	Visual documentation 1	Computer tools Photography - studio and on site, and computer graphics 1 Introduction to microscopy for conservators	TJA VAB AME	8 20 12							
AC1.3	0.2	Introduction to materials used for artifacts 1	Ceramic, glass 1 - material, technology and degradation processes	CMA	10							
<b>AH1</b>	<b>180</b>	<b>Humanities 1</b>			<b>85</b>	<b>6</b>						
AH1.1	0.4	Objects and Societies 1	Antiquity From the "big bang" to our days, geographical survey, Paleolithic, neolithic, protohistory	HDE Jammet	14 19							
AH1.2	0.3	Written documentation and methodology 1	Method of documentation, assessment of the conditions of conservation, establishment of a repository and choice of indicator	NDU	28							
AH1.3	0.3	Objects, heritage and museums 1	Ethnographic object and Society Technological objects and history 1	Bodenmann JBO	12 12							
<b>AN1</b>	<b>180</b>	<b>Natural sciences 1</b>			<b>84</b>	<b>6</b>						
AN1.1	0.4	Basics in Chemistry 1	Composition and binding in materials ; Stoichiometry Thermodynamic and kinetic of chemical reactions : <u>Chemical equilibrium</u>	ADO	36							
AN1.2	0.3	Basics in Physics 1	Applied physics to conservation 1	LBR	24							
AN1.3	0.1	Introduction to properties of materials 1	Inorganic material	ADO	12							
AN1.4	0.2	Health and safety 1	Occupational health and safety prevention: legal bases and statistics, chemical, physical, biological, mechanical and fall hazards, ergonomics, personal protective equipment, <u>prevention methods</u> . Introduction to Basic Life Support and First aid (two separate groups, each for 4 hours)	Gerber Domaine SAN	8 4							
AN1.5	sans éval.		Basics in Maths : support course open to every CR students (organized if questions are asked)	LBR	8							
<b>AW1</b>	<b>180</b>	<b>Conservation workshop 1</b>			<b>172</b>	<b>6</b>						
AW1.1	0.3	Collections conservation survey and monitoring 1	Monitoring and monitoring tools, data capture with Excel.	TJA	44							
AW1.2	0.5	Ceramic	Project management : examination, diagnostic, propositions, documentation Cleaning Adhesives and coating Labelling Visits : handworkers, workshops, museum collections laboratories	CMA	70							
AW1.3	pass/fail	Moulds and copies		Hug	36							
AW1.4	0.2	Basic tools and documentation in CR	Basic tools in CR (two separate groups, each for 8 hours) Computer tools for collections management system and CR-documentation 1	CAE VAB	8 14							

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<b>AC2</b>	<b>180</b>	<b>Conservation 2</b>			<b>80</b>		6				
AC2.1	0.2	Managing collections and their environment 2	Environmental basics: light and pollutants. Measurements and tools	TJA	16						
AC2.2	0.2	Visual documentation 2	Drawing : vector drawing and image processing 1	RJE	20						
AC2.3	0.6	Introduction to materials used for artifacts 2	Vegetal, animal and composite materials - materials, technology and degradation processes	Goron	20						
			Paleoecology. Introduction to geology.	AME	12						
			Polymers and resins 1 - material and degradation processes	ADO	8						
			Mosaics 1 - material and degradation processes	à définir	4						
<b>AH2</b>	<b>180</b>	<b>Humanities 2</b>			<b>67</b>		6				
AH2.1	0.2	Objects and Societies 2	Early Middle Ages, Late Middle Ages	Laurenti	15						
AH2.2	0.4	History, ethics and theory of conservation	Method of documentation, assessment of the conditions of conservation, establishment of a repository and choice of indicator	NDU	28						
AH2.3	0.4	Objects, heritage and museums 2	Ethnographic object and Society	Bodenmann	12						
			Technological objects and history 2	JBO	12						
<b>AN2</b>	<b>180</b>	<b>Natural sciences 2</b>			<b>72</b>		6				
AN2.1	0.5	Basics in Chemistry 2	Acids and bases; redox reactions, oxydation and reduction, electrochemistry.	ADO	36						
AN2.2	0.3	Basics in Physics 2	Applied physics to conservation 2	LBR	24						
AN2.3	0.2	Introduction to properties of materials 2	Organic materials	ADO	12						
<b>AW3</b>	<b>180</b>	<b>Conservation workshop 3</b>			<b>148</b>		6				
AW3.1	0.6	Collections conservation survey and monitoring 2	Climate studies. Collections conservation assessment. Long term storage materials. Handling and transportation.	TJA	80						
			Object labelling or marking. Inventory number	Leuenberger	4						
AW3.2	0.3	Packing 1 : Conservation storage materials and	Packing system, material working (synthetic	Boulangé	48						
AW3.3	0.1	Materials identification tests	Oddy test and material identification tests.	ADO	16						
<b>AW2</b>	<b>180</b>	<b>Conservation workshop 2 - external</b>					6				
AW2		Preventive conservation for heritage collections 1. Traineeship.	Collections conservation assessment. Handling, transportation, storage, packing	TJA	4.5 weeks						
<b>AW4</b>	<b>180</b>	<b>Conservation workshop 4 - external</b>					6				
AW4		Preventive conservation for heritage collections 2. Traineeship.	Collections conservation assessment. Handling, transportation, storage, packing	TJA	4.5 weeks						

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<b>BC1</b>	<b>180</b>	<b>Conservation 3</b>			<b>86</b>			6				
BC1.1	0.6	Managing the collection and its environment 1	Compatibility of storage and exhibition materials	ADO	12							
			Origin and sensitiveness (interactions)	NDU	8							
			Photography - studio and on site, and computer graphics 2	VBD	16							
			Cultural values, authenticity and conservation principles	RJE	12							
BC1.2	0.2	Technology of artifacts 1	Identification of traces of manufacturing and use	TSC	4							
			Metal and alloys 1 - materials and technology	VBO	8							
			Metal and alloys 2 - structure and degradation processes	VBO	8							
BC1.3	0.2	Introduction to degradation processes 1	Architecture, stone, mortar, wall paintings 2 - Materials, technology and degradation processes	Guyot	12							
			Polymers (artificial and synthetic materials) - Materials and degradation processes	Ramel	6							
<b>BH1</b>	<b>180</b>	<b>Humanities 3</b>			<b>56</b>			6				
BH1.1	0.3	Objects and Societies 3	Renaissance, 17th	Laurenti	18							
BH1.2	0.3	Written documentation and methodology 2	Terms and language of conservation (8h). Aims, documentation forms, permanence of information (6h).	GRA	14							
BH1.3	0.4	Objects, heritage and museums 3	Heritage objects : the Ethnologist point of view	CCR	12							
			Scientific and technological heritage in History	JBO	12							
<b>BN1</b>	<b>180</b>	<b>Natural sciences 3</b>			<b>66</b>			6				
BN1.1	0.4	Chemistry for conservation 1	Organic chemistry; Organic Nomenclature	ADO	24							
			Laboratory techniques: weighting and laboratory	ADO	4							
BN1.2	0.4	Basics in Biology 1	The living : plant and animal cells, protozootes,	AME	24							
BN1.3	0.2	Introduction to instrumental analysis	Photo, UV, NIR, X-Ray, Radiography, IR-	Passaretti	12							
BN1.4	pass/fail	Health and safety 2	Introduction to Basic Life Support and First aid (Reminder) - two groups, each group 2 hours	Domaine SAN	2							
<b>BW1</b>	<b>180</b>	<b>Conservation workshop 5</b>			<b>190</b>			6				
BW1.1	0.3	Composites : dismantling 1	Dismantling and reassembling methods	TSC	64							
BW1.2	0.5	Basics in wood and metal working	Basics in woodworking	Grall Burst	40							
			Material working, wood working, metal working, mounting, boxes, packing, working with synthetic polymers	GRA	56							
BW1.3	0.1	Documentation	Collections management systems and documentation in CR (advanced)	VBD	14							
BW1.4	0.1	Polymers: artificial and synthetic materials - identification and condition assessment		Ramel	16							
<b>BC2</b>	<b>180</b>	<b>Conservation 4</b>			<b>71</b>				6			
BC2.1	0.2	Visual documentation 3	Photography - studio and on site, and computer graphics 3	VBD	12							
BC2.2	0.6	Technology of artifacts 2	Sculpture and painting - Materials, technology and degradation processes	ANG	20							
			Paper, Photography - materials, technology and degradation processes	HKB à déf	8							
			Textiles 1 - materials and degradation processes	Vogt	8							
			Textiles 2 - technology	Schorta	4							
			Pigments and dyes	EJO	3							
BC2.3	0.2	Introduction to degradation processes 2	Collection assesment : Storage plans and management, calcul of space and volume	TJA	12							
BC2.4	pass/fail	Introduction to research methods		LBR	4							

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<b>BH2</b>	<b>180</b>	<b>Humanities 4</b>			<b>76</b>				6		
BH2.1	0.4	Objects and Societies 4	18th Century, 19th Century and 20th Century	HDE	18						
			20th and 21st Centuries	Bodenmann	10						
BH2.2	0.3	Legal aspects, business and work management in conservation	Business and work management in conservation ; Organisation and legal forms of a company; Taxes, financing, administration, contracts, accounting	Lefebvre	16						
			Legal aspects	Fischer	8						
BH2.3	0.3	Objects, heritage and museums 4	Ethnographic objects in museums	Bodenmann	12						
			Scientific and technological Heritage in Museography	JBO	12						
<b>BN2</b>	<b>180</b>	<b>Natural sciences 4</b>			<b>76</b>				6		
BN2.1	0.5	Chemistry for conservation 2	Atomic and molecular orbitals; Hybridization; Linseed oil polymerisation workshop & FTIR analysis	ADO	36						
				Passaretti	4						
BN2.2	0.3	Basics in Biology 2	Interpretation of cultures, preparation and	AME	12						
			Identification of micro-organisms	EJO	12						
BN2.3	0.2	Basic concepts of scientific analysis	An elementary approach to analytical techniques that are used to study the variety of materials and phenomena in the conservation of art objects.	Passaretti	12						
<b>BW3</b>	<b>180</b>	<b>Conservation workshop 7</b>			<b>210</b>				6		
BW3.1	0.4	Metal and wood working applied to objects mounting.	Introduction to wood-turning, Coloring and painting. Conception of objects mounting and application.	TSC	82						
BW3.2	0.3	Packing 2 : Conservation systems for transport	Packing for storage and transport. Introduction to shock tests.	Boulangé	60						
BW3.3	0.2	Collections conservation survey and monitoring 3	Collection assesment. Storage plans and management. Showcases conception project	TJA	36						
BW3.4	0.1	Colour and retouching	Colors: theory and use	ANG	32						
<b>BW2</b>	<b>180</b>	<b>Conservation workshop 6 - external</b>							6		
BW2		Preventive conservation for heritage collections 3. Traineeship.	Climate control, storage and display conditions, packing and transportation. Survey, assessment and management. Evaluation of storage and display conditions.	VBO	4.5 weeks						
<b>BW4</b>	<b>180</b>	<b>Conservation workshop 8 - external</b>							6		
BW4		Preventive conservation for heritage collections 4. Traineeship.	Climate control, storage and display conditions, packing and transportation. Survey, assessment and management. Evaluation of storage and display conditions.	VBO/TJA	4.5 weeks						
<b>CC1</b>	<b>270</b>	<b>Conservation 5</b>			<b>104</b>					9	
CC1.1	0.2	Advanced studies in technology, degradation and conservation of cultural heritage objects - metal and alloys	Archaeological and historic metals	VBO	14						
			Modern metal alloys	TSC	8						
CC1.2	0.2	Advanced studies in technology, degradation and conservation of cultural heritage objects - ceramic and glass	Ceramic, glass	CMA	16						
CC1.3	0.1	Advanced studies in technology, degradation and conservation of cultural heritage objects - organic materials	Organic materials	Goron	14						
CC1.4	0.1	Advanced course in physics	Applied physics to conservation 3	SLC	12						
CC1.5	0.4	Managing collections and their environment 4	Risk analysis	TJA	8						
				von Lerber	16						
				Sauvagnargues	16						
<b>CH1-AE</b>	<b>90</b>	<b>Humanities 5-AE<sup>3</sup></b>			<b>28</b>					3	
CH1.1-AE	0.4	Objects, heritage and museums 5	Ethnology and its methods	Dubosson	12						
CH1.2-AE	0.6	Archaeology	Archaeological artefacts	Jammet	16						

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<b>CH1-STH</b>	<b>90</b>	<b>Humanities 5-STH<sup>3</sup></b>			<b>44</b>						<b>3</b>	
CH1.1-STH	0.3	Objects, heritage and museums 5	Scientific and technological objects in museums 2	JBO	12							
CH1.2-STH	0.7	Scientific revolution and experimental science	History of sciences and techniques	JBO	32							
<b>CW1</b>	<b>180</b>	<b>Conservation workshop 9</b>			<b>78</b>						<b>6</b>	
CW1.1	0.8	Glasses	Glasses	CMA	64							
CW1.2	0.2	Security and safety, risk assessment	Security and safety : management, control, equipment	TJA	14							
<b>CW2</b>	<b>180</b>	<b>Conservation workshop 10</b>			<b>128</b>						<b>6</b>	
CW2		Metal and alloys	Metal and alloys	VBO	92							
			Heat treatments of steel. Introduction to mechanical cleaning.	TSC	36							
<b>CW4</b>	<b>180</b>	<b>Conservation workshop 12</b>			<b>120</b>						<b>6</b>	
CW4		Approach of technical objects	Project management on technical objects conservation. Team working. Dismantling and cleaning treatments.	TSC	120							
<b>CW3</b>	<b>180</b>	<b>Conservation workshop 11</b>									<b>6</b>	
CW3		Basics in cleaning of organic materials	Basics in cleaning of organic materials	CAL	112							
<b>CW5</b>	<b>180</b>	<b>Conservation workshop 13</b>									<b>6</b>	
CW5		Disaster response		NDU, Cauliez, Vaudant, Snijders, Gilloz, etc.	128							
<b>CW6</b>	<b>180</b>	<b>Bachelor thesis preparation</b>									<b>6</b>	
CW6		Bachelor thesis preparation		TSC, TJA, LBR, Boulangé, Gerber A.	128							
<b>CC2</b>	<b>360</b>	<b>Bachelor thesis</b>									<b>12</b>	
CC2		Bachelor thesis		TSC, TJA, LBR, Boulangé, Gerber A.	9 weeks							

<sup>1</sup>SWH = Student Working Hours

<sup>2</sup>Une heure de cours = 60 minutes

<sup>3</sup>Option à choix selon orientation