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Library Juice Academy

Certificate in XML and RDF-Based Systems

In this 6-course certificate program, you will gain competency as a coder in XML and RDF-based systems that create, transform, manage, and disseminate content and metadata. Typically, these are the structures at the heart of content management systems, repositories, and digital libraries, as well as the upcoming BIBFRAME. Topics covered include XML fundamentals, XPath, DTDs and Schemas, standard markup languages, XSLT and Xquery, the semantic web, RDFa and RDFa Lite, RSS, ontologies and linked data, and the SPARQL semantic query language and protocol.

The series is currently underway and started in February 2017. Classes in the current sequence can be accessed from our courses page.

Courses in this series (course titles are links):

Course	Instructor	Credits	Cost
Introduction to XML	Robert Chavez	1.5 CEUs	$175
Transforming and Querying XML with XSLT and XQuery	Robert Chavez	1.5 CEUs	$175
Introduction to RDF	Robert Chavez	1.5 CEUs	$175
RDFa1.1 (RDFa and RDFa Lite) and RSS	Robert Chavez	1.5 CEUs	$175
Introduction to Linked Data	Robert Chavez	1.5 CEUs	$175

Course	Instructor	Credits	Cost
The SPARQL Fundamentals I - The Semantic Web in Action	Robert Chavez	1.5 CEUs	$175

We are offering some additional classes that supplement the series: The SPARQL Fundamentals II, The SPARQL Fundamentals III, Introduction to JSON and Structured Data, and JSON-LD Fundamentals.

These courses work best if taken in sequence, as the sequence builds on knowledge gained, but we have no formal prerequisites in place. If you need to take them out of sequence, feel free to contact us about your situation.

Robert Chavez holds a PhD in Classical Studies from Indiana University. From 1994-1999 he worked in the Library Electronic Text Resource Service at Indiana University Bloomington as an electronic text specialist. From 1999-2007 Robert worked at Tufts University at the Perseus Project and the Digital Collections and Archives as a programmer, digital humanist, and institutional repository program manager. He currently works for the New England Journal of Medicine as Content Applications Architect. Interview with Robert Chavez