



## PCUPR School of Architecture & Design Approved Minor Concentration Electives

*Revised July 2023*

Responding to our mission of a multi-disciplinary education, the Elective Courses platform combines an internal (School) and external (main campus) offer. These courses are part of the current institutional offer, but are subject to availability for enrollment at any particular semester. The purpose of the interdepartmental alliances is to promote a transdisciplinary experience to our students and encourage the crosspollination of knowledge, research and applications. There is also the alternative of pursuing the minor degree with the Architecture course elective offering (subject to availability and/or a minimum of 12 student quorum). As a graduation requirement for the Bachelor of Architecture, each student must enroll three courses or a total of **9 credits** from the appropriate lists below:



<b>ARCHITECTURAL REPRESENTATION MINOR DEGREE (ARAR)</b> In collaboration with College of Arts and Humanities (Department of Fine Arts)	
<i>Courses within PCUPR (upon availability)</i>	
<b>ART 103</b> Fundamentals in Art	3
<b>ART 104</b> Fundamentals of Color and Design	3
<b>ART 107</b> International Design History	3
<b>ART 240</b> Painting I	3
<b>ART 241</b> Painting II	3
<b>ART 272</b> Digital Photography	3
<b>ART 280</b> Graphic Design I	3
<b>ART 281</b> Graphic Design II	3
<b>ART 282</b> Special Effects Applied to Video	3
<b>ART 312</b> Advanced Photography	3
<b>ART 340</b> Contemporary Concepts and New Forms	3
<b>ART 350</b> Advanced Drawing	3
<b>ART 362</b> Sculpture I	3
<b>ART 363</b> Silkscreen	3
<b>ART 372</b> Sculpture II	3
<b>ART 383</b> Digital Animation	3
<b>ART 401</b> Video Game Design	3
<b>ART 462</b> Constructive Sculpture	3
<b>ART 490</b> Advanced Projects	3
<b>ART 494</b> Advanced Projects in Digital Graphic Art	3
<i>Courses within School of Architecture (upon availability)</i>	
<b>ARAR 403</b> Ways of Seeing: Dimensions of the Photographic Image	3
<b>ARAR 404</b> Cognition, Perception and Representation of Form and Space	3
<b>ARAR 405</b> Architectural Fabrication Studio I	3
<b>ARAR 406</b> Graphic Design: Concept and Techniques	3



<b>HISTORY AND THEORY MINOR DEGREE (ARHT)</b> In collaboration with College of Arts and Humanities (Department of History)	
<i>Courses within PCUPR (upon availability) (upon availability)</i>	
<b>HIST 105</b> History of Western Thought	3
<b>HIST 206</b> History of Ponce	3
<b>HIST 212</b> Human Geography	3
<b>HIST 263</b> History of Spain	3
<b>HIST 265</b> History of the Church	3
<b>HIST 303</b> United States History (Compendium)	3
<b>HIST 310</b> Historical Research and Entrepreneurship	3
<b>HIST 360</b> Puerto Rican Society and Culture in the 20th Century	3
<b>HIST 370</b> The Caribbean	3
<b>HIST 373</b> Synthesis of Latin American History	3
<b>HIST 401</b> Modern History	3
<b>HIST 402</b> Contemporary History	3
<b>HIST 403</b> Society and Culture of Contemporary Europe ( <i>cultural trip abroad</i> )	3 or 6
<b>HIST 404</b> Society and Culture Latin America ( <i>cultural trip abroad</i> )	3 or 6
<b>HIST 408</b> History of Russia: Origin, Formation & Evolution of the Russian People	3
<b>HIST 409</b> History of the Far East: China and Japan	3
<b>HIST 410</b> XIXth Century Europe	3
<b>HIST 415</b> The French Revolution and the Napoleonic Era (1789-1815)	3
<b>HIST 419</b> Methodology and Techniques of Historical Research	3
<b>HIST 423</b> Society and Culture of United States	3
<i>Courses within School of Architecture (upon availability)</i>	
<b>ARHT 401</b> Re-Dimensioning Architectural Theory	3
<b>ARHT 402</b> Influential Practices on Recent History of Architecture	3
<b>ARHT 403</b> History of Emergent Digital Philosophies	3
<b>ARHT 404</b> Between Imagination and Representation: Contemporary Concepts & Architecture	3
<b>ARHT 405</b> History of Furniture Design	3



<b>ADAPTIVE CONSERVATION AND PRESERVATION MINOR DEGREE (ARAC)</b>	
In collaboration with College of Arts and Humanities (Department of History)	
<i>Courses within PCUPR (upon availability)</i>	<i>Cr.</i>
<b>HIST 403</b> Society and Culture of Contemporary Europe (Cultural Trip Abroad)	6
<b>HIST 417</b> Historiography	3
<b>HIST 419</b> Methodology and Techniques of Historical Investigation	3
<b>HIST 420</b> Seminar on Historical Investigation	3
<i>Courses within School of Architecture (upon availability)</i>	<i>Cr.</i>
<b>ARAC 301</b> Conservation Planning Strategies and Policies	3
<b>ARAC 401</b> The Economics and Finances of Historic Preservation	3
<b>ARAC 402</b> Cultural and Heritage Tourism	3
<b>ARAC 403</b> Preservation Research Strategies	3
<b>ARAC 404</b> Applications of Preservation Processes & Techniques I	3
<b>ARAC 405</b> Applications of Preservation Processes & Techniques II	3
<b>ARAC 430</b> In the Path of Lime	3

<b>SUSTAINABILITY AND TECHNOLOGIES MINOR DEGREE (ARST)</b>	
In collaboration with College of Sciences (Departments of Environmental Sciences and Physics-Mathematics)	
<i>Courses within PCUPR (upon availability)</i>	<i>Cr.</i>
<b>ENSC 350</b> Environmental Problems and Management	4
<b>ENSC 440</b> Hazardous and Non-Hazardous Solid Wastes	3
<b>ENSC 450</b> Water Treatment Systems	3
<b>ENSC 451</b> Air Pollution	3
<b>PHYS 325</b> Energy and Environment	3
<i>Courses within School of Architecture (upon availability)</i>	<i>Cr.</i>
<b>ARST 401</b> Aesthetics on Energy Conscious Architecture	3
<b>ARST 402</b> Sustainable Architecture and Technological Advances	3
<b>ARST 403</b> Leadership in Green Building Design and Construction	3
<b>ARST 404</b> Applications of Building Materials & Technology I	3
<b>ARST 405</b> Applications of Building Materials & Technology II	3



### STRUCTURAL FRAMEWORK AND ASSEMBLAGES MINOR DEGREE (ARSF)

In collaboration with College of Sciences (Department of Physics-Mathematics)

<i>Selected Courses within PCUPR (upon availability)</i>		<i>Cr.</i>
<b>MATH 271</b> Calculus I		4
<b>MATH 272</b> Calculus II		4
<b>MATH 373</b> Calculus III		4
<b>MATH 391</b> Differential Equations		3
<b>PHYS 221</b> Physics I		4
<b>PHYS 222</b> Physics II		4
<i>Elective Courses within School of Architecture (upon availability)</i>		<i>Cr.</i>
<b>ARSF 401</b> Morphology of Glass and Light		3
<b>ARSF 402</b> Flexibility and Malleability on Tensile Structures		3
<b>ARSF 403</b> Complexities and Symbolism on High Technology Buildings		3

### LANDSCAPE, ECOLOGY AND ENVIRONMENT MINOR DEGREE (ARLE)

In collaboration with College of Sciences (Department of Biology)

<i>Selected Courses within PCUPR (upon availability)</i>		<i>Cr.</i>
<b>BIOL 115</b> Fundamentals of Environmental Sciences & Ecology		3
<b>BIOL 201</b> Ecology for Tourism I		3
<b>BIOL 202</b> Ecology for Tourism II		3
<b>BIOL 222</b> Botany		4
<b>BIOL 340</b> Ecology		4
<b>BIOL 429</b> Ecosystems of Puerto Rico		4
<b>BIOL 431</b> Marine Biology		4
<i>Elective Courses within School of Architecture (upon availability)</i>		<i>Cr.</i>
<b>ARLE 401</b> Urban Ecology		3
<b>ARLE 402</b> Planting Materials in Landscape Design		3
<b>ARLE 403</b> Advanced Landscape Architectural Design		3
<b>ARLE 404</b> At the Plaza: 78+ Cultural Landscapes		3



<b>URBAN SCAPES AND COMMUNITIES MINOR DEGREE (ARUS)</b> In collaboration with College of Arts and Humanities (Department of Social Sciences)	
<i>Selected Courses within PCUPR (upon availability)</i>	<i>Cr.</i>
<b>PUAD 230</b> Municipal Government	3
<b>PUAD 265</b> Public Administration	3
<b>PUAD 355</b> Policy Analysis	3
<b>PUAD 373</b> Ethics and Public Administration	3
<b>PUAD 384</b> Fiscal Policies and Budgeting	3
<b>PUAD 385</b> Public Finance, Fiscal Policy, and Budgeting	3
<b>SOCI 213</b> Fundamental Sociology (Compendium)	3
<b>SOCI 218</b> Statistical Methods in Social Science	3
<b>SOCI 303</b> Economic Principles and Problems	3
<b>SOCI 305</b> Social Research	3
<b>SOCI 314</b> Social Problems	3
<b>SOCI 325</b> Cultural Anthropology	3
<b>SOCI 405</b> Demography	3
<b>SOCI 440</b> In-Learning Service	3
<i>Elective Courses within School of Architecture (upon availability)</i>	<i>Cr.</i>
<b>ARUS 401</b> Studies on Emergent Urban Practices	3
<b>ARUS 402</b> Urban Economic and Financial Milieu	3
<b>ARUS 403</b> Urban Sociology and the Cultures of Cities	3



<b>LEGAL AND ADMINISTRATIVE MINOR DEGREE (ARLA)</b>	
In collaboration with College of Arts and Humanities and the College of Business Administration	
<i>Selected Courses within PCUPR (upon availability)</i>	<i>Cr.</i>
<b>PUAD 390</b> Administrative Law	3
<b>POSC 221</b> International Organizations and Politics	3
<b>POSC 325</b> Public International Law	3
<b>POSC 329</b> Constitutional Law	3
<b>PRLS 207</b> Introduction to Pre-Law Studies	3
<b>PRLS 300</b> Seminar on Academic Aptitude Test	3
<b>PRLS 307</b> Legal Research	4
<b>MGNT 313</b> Business Law I	3
<b>BLAW 315</b> Corporations	3
<b>BLAW 317</b> Consumer Law	3
<b>BLAW 410</b> Environmental Law	3
<i>Elective Courses within School of Architecture (upon availability)</i>	<i>Cr.</i>
<b>ARLA 401</b> Real Estate Development Process	3
<b>ARLA 402</b> Public-Private Partnerships	3
<b>ARLA 403</b> Value and Appraisal of Land	3



<b>DEVELOPMENT, ENTREPRENEURSHIP AND FEASIBILITY MINOR DEGREE (ARDA)</b> In collaboration with College of Business Administration	
<i>Selected Courses within PCUPR (upon availability)</i>	
<b>ECON 201</b> Fundamentals and Applications of Economics I	3
<b>ECON 202</b> Fundamentals and Applications of Economics II	3
<b>ECON 304</b> Economic Development of Puerto Rico	3
<b>ECON 426</b> International Economics	3
<b>FINA 301</b> Risk and Insurance Management	3
<b>FINA 302</b> Real Estate	3
<b>FINA 405</b> Real Estate Appraisal	3
<b>MGNT 111</b> Management Fundamentals	3
<b>MGNT 130</b> Entrepreneurship and Communities	3
<b>MGNT 202</b> Small Business Management	3
<b>MGNT 210</b> Organizational Behavior	3
<b>MGNT 230</b> Entrepreneurship	3
<b>MGNT 250</b> Entrepreneurial Creativity and Innovation	3
<b>MKTG 211</b> Marketing Fundamentals	3
<i>Elective Courses within School of Architecture (upon availability)</i>	
<b>ARDA 401</b> Strategic Administration	3
<b>ARDA 402</b> Business Plan Development	3
<b>ARDA 403</b> Administrative Initiatives	3