Certificate of Achievement: Applied GIS and Spatial Studies

Applied GIS & Spatial Studies uses multi-dimensional representations of information to help structure problems, find answers, and express solutions. The ability to visualize and interpret relationships through space is essential for understanding content and solving problems across a wide spectrum of disciplines in the earth sciences, environmental sciences, social sciences, business, urban planning, public safety and health sciences. With this certificate, students will use spatial thinking, analysis, modeling, and mapping skills to interpret and present information.

Certificate Student Learning Outcome:

Students will apply principles of Spatial Science and GIS to solve spatial problems and inquiries in their field of study.

		Units:			
Programs Requirements:					
Units Required: 19 - 22					
GIS-101	Introduction to Geographic Information Systems	3.0			
GIS-102	Applied Techniques for GIS	3.0			
GEOGRPH-110	3.0				
MATH-140 OR	Introductory Statistics	4.0			
MATH-140H OR	Introductory Statistics - Honors	4.0			
MATH-140X OR	Statistics with Support	5.0			
PSCYH-104 OR	Statistics for the Behavioral Sciences	4.0			
SOCI-137	Statistics for the Social Sciences	4.0			
Plus six to eight units from one of the following focus areas:					
Administration o					
ADMJUS-101	Introduction to Administration of Justice	3.0			
ADMJUS-155	Criminal Investigation	3.0			
Anthropology and Archeology Focus					
ANTHRO-101	Physical Anthropology	3.0			
OR					
	Physical Anthropology – Honors	3.0			
ANTHRO-103	Cultural Anthropology	3.0			
OR	~	• •			
	Cultural Anthropology – Honors	3.0			
ATNHRO-105	Introduction to Archeology	3.0			
ANTHRO-210	Indigenous People of California	3.0			
Architecture Focus					
ARCHT-120	Design I – Elements of Architectural Drafting	3.0			
ARCHT-200A	Sustainable Development & Environmental Design	3.0			

Biology Focus				
BIOSCI-106	Organismal & Environmental Biology	4.0		
OR	organisma & Environmental Brotogy			
BIOSCI-106H	Organismal & Environmental Biology – Honors	4.0		
BIOSCI-115	General Zoology	4.0		
BIOSCI-116	General Botany	4.0		
BIOSCI-130	Contemporary Issues in Environmental Biology	3.0		
Business Focus				
BUS-100	Introduction to Business	3.0		
BUS-117	Business Entrepreneurship	3.0		
BUS-140	Principles of Marketing	3.0		
BUS-141	Principles of Advertising	3.0		
Environment Ecous				
Environment Focus	Introduction to Environmental Studies	2.0		
ENVRMT-101 ENVRMT-103	Introduction to Environmental Science	3.0 4.0		
ENVRMT-103 ENVRMT-104	Energy Resources Conservation	3.0		
EN V KWH-104	Energy Resources Conservation	3.0		
Fire Technology Focus				
FIRETC-101	Principles of Emergency Services	3.0		
FIRETC-102	Fire Prevention	3.0		
FIRETC-110	Wildland Fire Behavior	3.0		
FIRETC-123	Fire Investigation	3.0		
THE 10 125	The investigation	5.0		
Geography Focus				
GEOGPRH-100 Physica	al Geography	3.0		
GEOGPRH-101 Physica		4.0		
GEOGPRH-102 Human		3.0		
GEOGPRH-103 Weathe		3.0		
GEOGPRH-104 World I	Regional Geography	3.0		
GEOGPRH-105 Californ		3.0		
Geology Focus				
GEOLOGY-100 Physica		3.0		
GEOLOGY-101 Physica	ıl Geology with Lab	4.0		
GEOLOGY-102 Historic	cal Geology	4.0		
GEOLOGY-104 Enviror		3.0		
GEOLOGY-105 Californ	nia Geology	3.0		
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Global Studies Focus		2.0		
GLST-101	Introduction to Global Studies	3.0		
GLST-102	Global Issues	3.0		
GEOGRPH-104 World I		3.0		
POLISC-270	International Relations	3.0		
M				
Marine Sciences Focus BIOSCI-119	Marina Rialagy	4.0		
OCEAN-101	Marine Biology	4.0		
OCEAN-101	Introduction to Oceanography	4.0		
Public Health Science Focus				
HLHSCI-100	Health Education	3.0		
HLHSCI-140	Introduction to Public Health	3.0		
11211001 110	The substitute of world from the	3.0		
Real Estate Focus				
REAL-100	Real Estate Principles	3.0		
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REAL-101 REAL-120	Real Estate Practices Real Estate Appraisal	3.0 3.0
Sociology Focus		
SOCI-101	Introduction to Sociology	3.0
OR		
SOCI-101H	Introduction to Sociology – Honors	3.0
SOCI-102	Introduction to Sociological Research	3.0
SOCI-104	Introduction to Social Justice Studies	3.0
SOCI-207	Social Problems	3.0
SOCI-210	Sociology of Deviance	3.0
SOCI-250	Introduction to Criminology	3.0