

**San Juan College Renewable Energy Program
One-Year Certificate in Photovoltaic System Design and Installation**

- Supersedes College Catalog -

Course Scheduling for Photovoltaic System Design and Installation Certificate				
Fall 2005				
Course	Title	Pre- & Co-requisites	Offered	Credits
1st Semester (Summer)				
INST 140	Applied Basic Electronics - DC	Co-req: MATH 096	F,Sp,Sum	3
PHYS 111	Introduction to Physics	Pre-req: MATH 096 or Accuplacer placement	F,Sp,Sum	4
			Total	7
2nd Semester (Fall)				
INST 145	Applied Basic Electronics - AC	Pre-req: INST 140; Co-req: MATH 115 or 116	F,Sp,Sum	3
INST 141	National Electrical Code I	None	F	3
RENG 210	Renewable Energy Applications	Pre-req: PHYS 111, COSC 125	F	4
RENG 170	Instrumentation and Control	Co-req: INST 145	F	3
RENG 240	PV Installation and the NEC I	Co-req: INST 141 & 145	F	3
			Total	16
3rd Semester (Spring)				
INST 142	National Electrical Code II	Pre-req: INST 141	Sp	3
RENG 171	AC and DC Machines	Pre-req: INST 145	Sp	3
RENG 220	PV Theory and System Design	Pre-req: RENG 210, INST 145; Co-req: INST 142	Sp	4
RENG 241	PV Installation and the NEC II	Pre-req: RENG 240, INST 145; Co-req: INST 142	Sp	3
	Renewable Energy Elective *			3
			Total	16
	* Choose from: RENG 270, RENG 299, BIOL 230			
			Total for Certificate	39
Note: A student must earn a grade of "C" or higher in all RENG, INST, and PHYS courses in order to receive a degree or certificate				
Prerequisite requirements				
MATH 115	Intermediate Algebra and Applications	Pre-req: MATH 096 or Accuplacer placement	F,Sp,Sum	4
MATH 116	Math for High Tech Careers	Pre-req: MATH 096 or Accuplacer placement	F,Sp,Sum	3
COSC 125	Business Microcomputer Applications	None	F,Sp,Sum	3