## SDHXCS Enrichment Classes (才艺课)

Subject (科目):	<b>Computer Science</b>	Computer Science						
Course Name (课程名称):	Media Computing with 公众号链接	Media Computing with Python (电脑编程) 公众号链接						
Teacher Name (教师姓名)	C D L/車寸份)	Phone	e (440) 320 - 2818					
	Cao, Paul (曹英俊)	email	cs4fun.sd@gmail.com					
Teacher's Backgroun	ıd							
(教师简介):	science at UC San Diego experience in computer of research institutions. He unlocking students' pote training, which includes and fun-filled environme coding skills with Python 圣地亚哥华夏中文学校 教于加州大学圣地亚哥 大学计算机工程专业获 丰富的教学经验。他在 II、计算机结构和高级数	Dr. Paul Cao, the principal instructor at CS4FUN, teaches computer science at UC San Diego. He has more than 15 years of teaching experience in computer science programs at liberal arts colleges and research institutions. He and his CS4FUN team are committed to unlocking students' potential in coding through formal computer science training, which includes developing computational thinking in a structured and fun-filled environment and building a solid foundation in practical coding skills with Python.  圣地亚哥华夏中文学校电脑编程班的主讲教师是 Paul Cao,他目前任教于加州大学圣地亚哥分校(UCSD)计算机科学与工程系,他在杜克大学计算机工程专业获得博士学位。Paul 在本科和 K-12 教育领域拥有丰富的教学经验。他在 UCSD 负责主讲本科课程,如计算机编程 I 和 II、计算机结构和高级数据结构。他在美国计算机科学教育界,尤其 K-12 教育研究领域中享有较高声誉。他的学生遍布硅谷各大公司和顶尖大学的研究生院。						
<b>Course introduction</b>	This class is an introduc	tory progi	ramming class designed for 6th – 8th					
(课程简述):	grade students. We will students in computationa skills. The objective is to functional program with	grade students. We will use image manipulation in Python to inspire students in computational thinking and improve their problem-solving skills. The objective is to be able to produce a fairly advanced and functional program within a 31-week period.  本课程将使用 Python 中的图像处理和游戏创建来激发学生的计算思						
	本保住科使用 Python 中的图像处理和游戏创建来激发学生的维, 提高他们解决问题的能力。学生的目标是在学习一学年作有趣的游戏。下半学年将使用 Pygame 工具制作 Arcade 风材							
Course Objectives (课程目标):	<ol> <li>Start from Scratch and write a functional code in Python.</li> <li>Be able to understand variables and basic flow controls (conditional statements and loops).</li> <li>Design basic algorithms involving fundamental array concepts and nested loops.</li> </ol>							

	4. Be able to implement methods that accept parameters and return a value.					
	5. Be familiar with a realistic coding environment.					
	1.学习 scratch, 用 Python 编写功能代码。 2. 能够理解变量和基本流量控制(条件语句和循环)。 3. 可以设计基本数组概念和嵌套循环的基本算法。 4. 能够掌握接受参数并返回值的方法。					
	5. 熟悉现实的编码环境					
Pre-requisite/Student	4th - 8th grade					
Ages	Students need to bring their own laptops (pc or mac)					
(先决要求/学生年龄要求):	4-8年级, 学生要自带手提电脑。					
<b>Student Evaluation /</b>	The evaluations will be based on regular homework assignments and final					
Presentation	projects.					
(评分方法 (演出、比赛、展	根据学生完成与否定期的家庭作业和最终项目给予期末评估。					
示等)):						
Class Size (最多招生人数限制):	Min: 5 Max: 15					
Course Fee (报名费 / 学 费):	Registration & material fee	\$660 / year	Course Time & Location	Sundays 11:30 Am - 1:00 Pm 1:30Pm - 3:00 Pm room H-103		