Course Code/Course Title: **FSW102-JS Programming Foundations**				
Course Description: The Programming Foundations course is an introduction to basic programming principles as expressed in the elective language. Students will develop a foundational knowledge of programming concepts, algorithms, design patterns and theory. Language-specific concepts will be covered, outlining the nuances associated with the elective language.				
Course Length: 40 hours	**Prerequisites:** FSW101	**Proficiency Exam** ☐Yes ☒ No		
Course Start Date: **Course End Date:**	**Meeting Days/Times**			
Required Resources: Minimum: PC (Windows) or MacBook laptop. 4GB ram, 256GB HD, Core i5 Recommended: PC (Windows) or MacBook laptop. 8GB ram, 256GB SSD, Core i5 This will become your programming rig. Every student will need their own laptop. We will be downloading programming resources to your laptop, and it will also house your coding projects. The web portal: https://wozu.exeterlms.com has the course material – this is the "textbook" for the course.				
A. **For Classes Delivered in an Online Format (for approved courses and campuses).** Online courses are delivered via **https://wozu.exeterlms.com** in an asynchronous format. Students enrolled in online courses/programs are expected to spend an equivalent amount of time on task, as campus-based students, in meeting course objectives. For Online Courses the total expected hours required for completion of course objectives are identified on the syllabus as **Total Contact Hours** and reflect the sum of theory, laboratory, and outside hours.				

Educational Objectives:

Upon successful completion of this Program, students will be able to:

1. Learn about common programming concepts
2. Learn the basics of iteration, decision making, and code organization
3. Learn the basics of Object Oriented Programming
4. Learn how to handle errors and recover from failure states
5. Learn how to debug applications

Course Outline