New Horizons Regional Education Centers (C&T)

Pacing Guide (SY 2017/2018)

Program: Programming (6640)   **Teacher: Sridhar Chinnabhandar**

1st/ 2nd Quarters Topic/Unit	Virginia State Competencies	Java 6 Fundamentals Certification	Supporting Equipment Technology
What is programming? **Java 6 Certification** **TNCC: 19 ITP credits**	-	-	Lecture/Web page/Computer
Programming Development Environment for Java **The First Java Program** **Primitive Variables** **Arithmetic and Relational Operators** **User Input** **Syntax Errors** **Executable Files**	39-49, 61	Syntax and Tools	Lecture/Web page/Computer
Decision Statements **Loops – single and nested** **Formatted Output**	52, 54-55, 58-60	Syntax	Lecture/Web page/Computer
Using web resources for programming	77-78	Libraries	Lecture/Web page/Computer
The Software Industry **Attributes of a professional programmer** **Internet Security**	1-29, 33, 85,86, 88, 90	-	Lecture/Web page/Computer
Methods	53, 57	Libraries	Lecture/Web page/Computer
Arrays	56	Syntax	Lecture/Web page/Computer
String Processing in Java	-	Libraries	Lecture/Web page/Computer

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Object-oriented Programming	62	Class Definition	Lecture/Web page/Computer
Software Development Industry Trends **Programming Languages and Operating Systems**	34-37	Virtual Machine	Lecture/Web page/Computer
Graphical User Interface (GUI)	50, 51	Visual Components	Lecture/Web page/Computer
Web page design with JavaScript/html	79-80	Libraries	Lecture/Web page/Computer
Java 6 Certification Review	81-84	Java 6 Fundamentals Brain Bench Exam	Lecture/Web page/Computer
Introduction to Game Programming (Game Maker)	63-76	-	Lecture/Web page/Computer
Exception Handling	-	Libraries	Lecture/Web page/Computer
File Read/Write Operations **Java Applets**	-	Libraries	Lecture/Web page/Computer
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Creating a resume for a programming job **Oral presentations** **Software Professional Portfolio (GitHub)** **Diversity and underrepresentation in IT**	87, 89, 91, 92	-	Lecture/Web page/Computer
2018 Great Computer Challenge at ODU	30-32	-	Prep Sessions/Web page/Computer