

New Horizons Regional Education Centers (C&T)
Pacing Guide (SY 2017/2018)

Program: Advanced Programming (6641)

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3rd /4th Quarters Topic/Unit	Virginia State Competencies	Java 6 Fundamentals Certification	Supporting Equipment Technology
The Software Industry Attributes of a professional programmer Internet Security	1-29, 33	No	Lecture/Web page/Computer
Object-oriented programming review: Overloading and overriding methods	34-43	Class Definition	Lecture/Web page/Computer
Java GUI Swing API	39-49, 61	Syntax and Tools	Lecture/Web page/Computer
Event Handling, Inner Classes and Anonymous inner classes	52, 54-55, 58-60	Syntax	Lecture/Web page/Computer
Abstract classes and Interfaces The Comparable Interface Software Testing	47, 48, 49	Libraries	Lecture/Web page/Computer
Exception Handling	46	Tools	Lecture/Web page/Computer
Java Text and Binary Files	-	Libraries	Lecture/Web page/Computer

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Abstract Data Structures Searching and Sorting	44-45	Class Definition	Lecture/Web page/Computer
Software Development Industry Trends Programming Languages and Operating Systems	34-37	Virtual Machine	Lecture/Web page/Computer
Software Development Lifecycle	38	Practical Software Engineering	Lecture/Web page/Computer
Web Programming : Client/Server Side JDBC Connectivity	50-58, 74-80	Libraries	Lecture/Web page/Computer
Java 6 Certification Review	81-84	Yes	Lecture/Web page/Computer
Regular Expressions	-	Libraries	Lecture/Web page/Computer
Multithreading	-	No	Lecture/Web page/Computer
Networking	-	Libraries	Lecture/Web page/Computer

3rd /4th Quarters Topic/Unit	Virginia State Competencies	Java 6 Fundamentals Certification	Supporting Equipment Technology
Object-oriented Design	35	Class Definition	Lecture/Web page/Computer
Developing Mobile Applications	70-73	-	Lecture/Web page/Computer
Gaming and Simulation (Interactive 2D and 3D multiplayer games)	59-69	No	Lecture/Web page/Computer
2018 Great Computer Challenge at ODU	30-32	No	Prep Sessions/Web page/Computer
Java Generics and Collection Classes	-	Class Definition	Lecture/Web page/Computer
Creating a resume, oral presentations, Software Professional Portfolio (GitHub) Diversity and underrepresentation in IT	85-88	-	Lecture/Discussions/Computer