

CS 5405 Java, Graphical User Interfaces and Visualization**Pre-requisites: CS2500, strong background in C++****Java, GUI and Visualization****The course emphasis is on fundamentals of**

JavaFX GUI related Topics

Button, CheckBox, RadioButton, ComboBox, List,

Slider, Menus, popup menus

Multimedia Audio, Images

MultiTasking (32),

Networking (optional)

Mouse, Graphics & 2D Java

All javaFX 8 and upwards as available

Fall Semester 2019**CS5405****Java, GUI and Visualization**

Week	Topics
	Application Anatomy, edit, compile, execute
1	Chapters 3-6: Control Structures, Chapter 7: Methods,
2	Chapters 9-11: Concrete class, Label, TextField, Button, Slider, Garbage Collection,
3,4	Chapters13: Static, Final, Abstract Class, Interfaces, Colors, Fonts, x Finalize
5,6	JavaDoc, Border Pane, StackPane,FlowPane, GridPane, HBox, VBox
7,8,9,10	Top-level Components Containers: Panel, Frame GUI Components Atomic-level Button, TextField, Password, TextArea CheckBox, RadioButton, LayoutManagers: Flowlayout, BorderLayout, GridBagLayout, GroupLayout, SpringLayout, BoxLayout Intermediate-level -- organization Top-level – main display Model, View, Control User friendliness: setToolTipText, setSize, setBounds, setMargin, Insets, PopupMenus, Toolbars
10	Multimedia: Controls Slider, Imaging
11	Menu, ShortCuts, Mouse and MouseDrawing, Animation
12	Menu, ShortCuts, ComboBox, ListView,
13	Multimedia: Audio, Video
14	Threading, Algorithm Visualization
15	Project Demos
16	Final Exam

