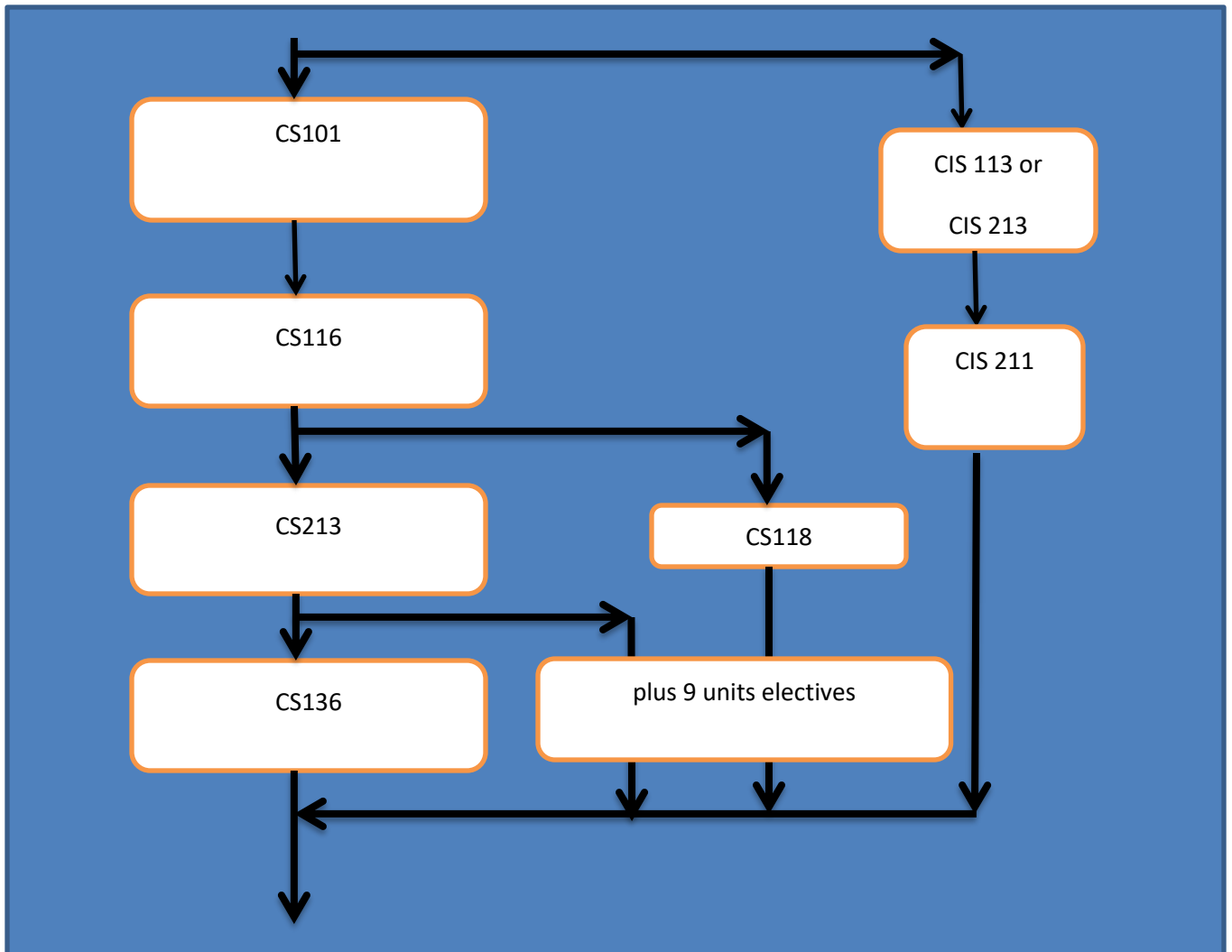


Recommended Computer Science Information Technology Course Sequence for Required Classes



Course	Language	Topics Covered
CS101	Python	Basic input/output Decision making statements such as if conditions. Nested If conditions. If else. Loops(For, while) Functions(passing parameters) Arrays
CS116	C++	Input/output Loops Functions. Overloaded functions Classes(Static data and member functions) Constructors. Structures

		<p>Writing to Text files</p> <p>Arrays.</p> <p>Array of structures and objects.</p> <p>Pointers.</p> <p>String manipulation.</p> <p>Random Access Files. Storing Data in Binary Files</p>
CS213	Java	<p>Loops.</p> <p>Methods.</p> <p>Classes</p> <p>Inheritance.</p> <p>Polymorphism.</p> <p>Abstract classes</p> <p>Interfaces.</p> <p>Writing data to Text files</p> <p>Writing Data to Binary files</p> <p>Graphical User Interface using Javafx.</p> <p>Final project of the size of 3000 lines of code.</p>
CS136		<p>Stacks</p> <p>Queues</p> <p>Maps</p> <p>Linked List</p> <p>Generic Linked List</p> <p>Trees. Binary Trees</p> <p>Recursion.</p> <p>Database.</p> <p>Connecting to database in the cloud.</p> <p>Final exam project which is continuation of CS213 project. 3000 lines of code.</p>
CS116	Assembly Language	<p>Basic input/output</p> <p>Registers</p> <p>Microprocessor Architecture.</p> <p>Number system.</p> <p>Loops</p> <p>Conditional statements.</p> <p>Procedures.</p>