Module 4 - Security in Software Dependency and Composition
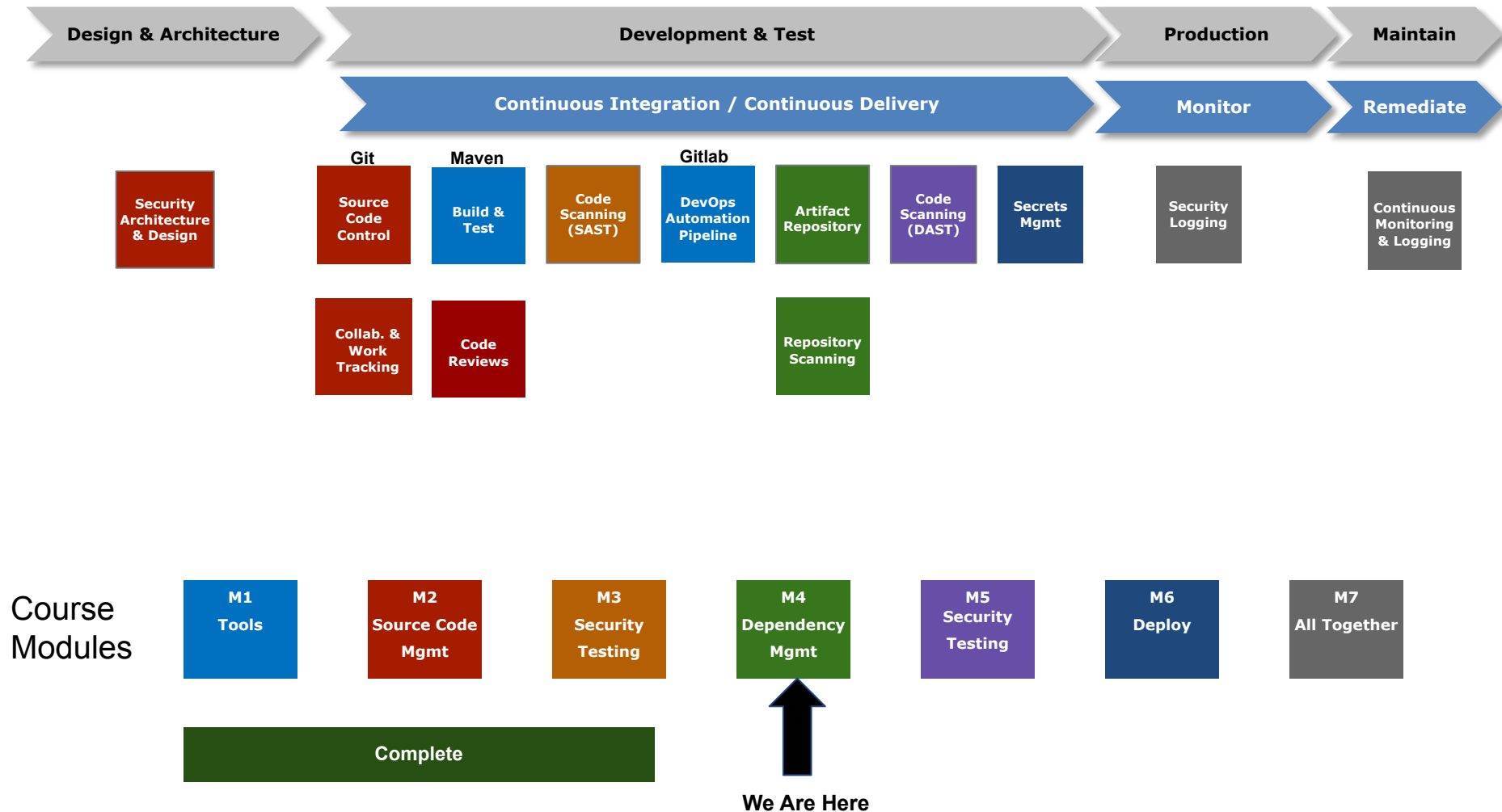
AUBURN UNIVERSITY

CPSC 4970 Applied Cyber Security

Course Overall Project Progress

Design & Architecture	Development & Test		Production	Maintain

	Continuous Integration / Continuous Delivery	Monitor	Remediate

Git **Maven** **Gitlab**

Security Architecture & Design	Source Code Control	Build & Test	Code Scanning (SAST)	DevOps Automation Pipeline	Artifact Repository	Code Scanning (DAST)	Secrets Mgmt	Security Logging	Continuous Monitoring & Logging

Collab. & Work Tracking	Code Reviews			Repository Scanning

Course Modules

M1 Tools	M2 Source Code Mgmt	M3 Security Testing	M4 Dependency Mgmt	M5 Security Testing	M6 Deploy	M7 All Together

Complete

We Are Here

Module 4 Overview

- Case Study - Log4j Shell Vulnerability
- Software Dependency Management
- Dependency Management with Maven
- Gitlab Dependency Scanning & Vulnerability Mgmt
- Cryptographic Hashing & File Verification
- Git Merge Conflicts