Place & Time  TTH 2:00PM – 3:15PM

Credit  3 Hours

Instructor  Dr. James D. Arthur
            610 McBryde Hall; Tel.: 231-7538; E-mail: arthur@vt.edu
            Office hours: TBA; and by appointment

TA  TBA

Required Text  Steven R. Rakitin, “Software Verification and Validation for Practitioners

Course Description  V&V has come to represent a rigorous approach to ensuring the
            production of high quality, reliable software that meets its stated
            requirements.

            The content of this course will focus on the need for and application of
            verification and validation techniques to the various stages of the software
            development cycle. In particular, instruction, presentations and project
            will focus on:

            • The rational behind the evolution of V&V procedures,
            • V&V applied to the Software Development LifeCycle,
            • Tools and techniques used in carrying out the V&V process,
            • The role, tools and techniques for independent V&V

Grading  The course grade will be computed as follows:

            Project .................................................................................................... 40%
            Requirements evaluation/presentation ............................................ 20%
            Design evaluation/presentation ......................................................... 20%
            Research paper presentations ............................................................. 25%
            Short Quizzes (10-15 mins.) ................................................................. 25%
            Class Participation ................................................................................. 10%

            For group projects, peer evaluations will be requested by each group
            member for each member in a given group.

            The standard 90/80/70/60 grade scale will be used. +’s and −’s are given.
Assignments

- Readings (Rakitin & Papers)
- Project development, analysis and presentation (by group)

Attendance

Full attendance is expected. Cases of illness or emergencies which make it impossible to attend class should be reported to me as soon as possible. You are responsible for all material covered. If you must miss a class make arrangements with another student to get the material.

Honor System

All work is to be done under the provisions of the Virginia Tech Honor System.

Reference Materials


