



Introductory classes are for those who have little or no experience with MCNP. This class surveys the features of MCNP so the beginning user will be introduced to the capabilities of the program, and will have hands-on experience at running the code to solve simple problems. Course topics include Basic Geometry, Source Definitions, Output (Tallies), Advanced Geometry (repeated structures specification), Variance Reduction Techniques, Statistical Analysis, Criticality, Plotting of Geometry and Tallies, and Neutron / Photon / Electron Physics.

This 5-day introductory class is for people who have never used MCNP6 or have very limited experience with the code and will include interactive computer sessions. Time will be available to discuss individual questions and problems with MCNP experts or to pursue in more detail topics mentioned in the talks.

Topics to be covered include:

New features in MCNP6

Basic geometry and advanced geometry

Source definitions

Tallies

Data

Variance reduction

Statistical analysis

Criticality

Plotting of geometry and tallies

Neutron/photon/electron physics

The class will be based on the latest release of MCNP6 code.

You are expected to have little or no experience with MCNP. A CD will be provided for use in the classroom.