Overview.

Initialization:

Choose reaction, final state (if appropriate).
Disable implementation of (or correction for) raster, eloss,...

Event generation:

Select vertex based on target size, position, raster size, beam spot size. Determine energy/angle generation limits that will populate 100% of the acceptance (even after radiation, energy loss, resolution, etc...)

Physics processes:

Event-by-event multiple scattering, radiative corrections, particle decay, coulomb corrections.

Acceptance:

Can apply geometric cuts or spectrometer model. Spectrometer models include target/spec offsets, model of magnetic elements, apertures at front, back, middle of magnets, beam pipes and collimators, and cuts based on detector active areas where appropriate.

Event Reconstruction:

Tracks are fitted in the focal plane and reconstructed to the target. Apply average energy loss, fast raster corrections. Calculate physics quantities for Ntuple.