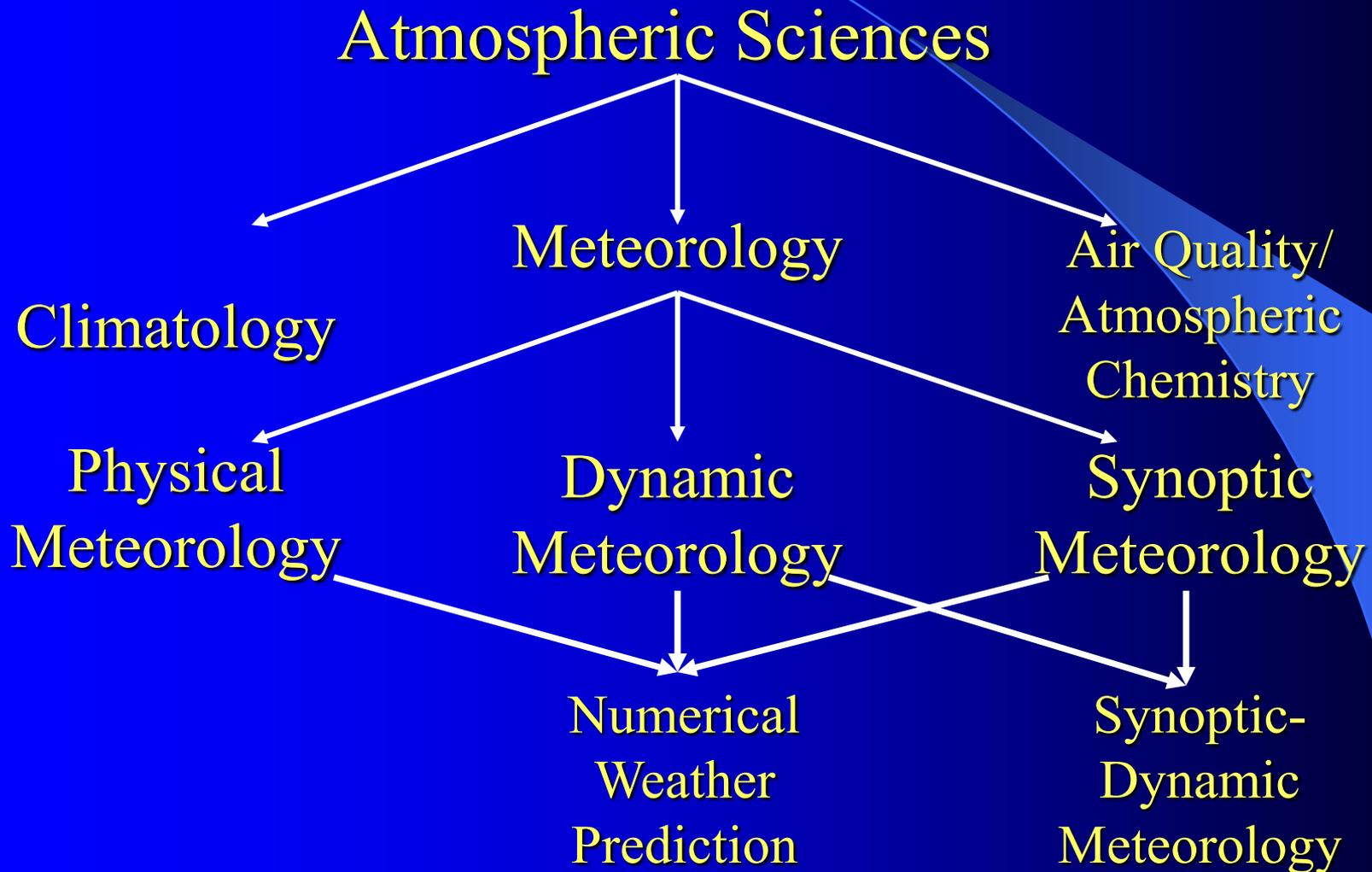


Overview of ASME

- (a) Overview of the ASME 231 syllabus
- (b) Differences between Atmospheric Science and Meteorology
- (c) Fundamental laws governing Atmospheric Dynamics and Atmospheric Physics

1.2 Differences Between Atmospheric Science and Meteorology



1.3 Fundamental Laws Governing Atmospheric Dynamics and Thermodynamics

➤ Fundamental laws of geophysical fluid dynamics (GFD) and thermodynamics are used to describe:

(a) atmospheric motions, (u, v, w)
[Dynamics]

(b) states of the atmosphere, (ρ, p, T)
[Thermodynamics]

- To understand the atmospheric motions, we need to study the **Atmospheric Dynamics**.
- To understand the atmospheric processes between different states, we need to study the **Atmospheric Physics**.
- **Atmospheric Physics has three branches:**

