OC4325 METOC for Warfighter Decision Making

1. **Prerequisites**

   OC/MR 3140 Probability and Statistics for Air-Ocean Sciences is a prerequisite.

2. **Course Description**

   This course introduces decision science in the context of utilizing deterministic vs. stochastic meteorological and oceanographic fore-casts to improve strategic, operational, and tactical planning. Various aspects of generating, communicating, and applying stochastic forecasts for optimal decision making under uncertainty are explored. Prerequisites: MR/OC3140 or similar course on statistics. MR/OC4323 and MR4324 are recommended but not required.

3. **Course Syllabus**

   Chapter 1 – Basic Probability and Statistics

   Chapter 2 – Basics of Decision Science

   Chapter 3 – Decision Tree Fundamentals

   Chapter 4 – Sensitivity

   Chapter 5 – Subjective Probability

   Chapter 6 – Value of Information

   Chapter 7 – Utility and Risk

   Chapter 8 – Probabilistic Forecast Information

4. Course Grade

   Lab   25%
   Mid-Term 30%
   Final   45%

Office Hours:

Educating students is my highest priority.
You may come to my office any time from 7:30 am to 6:00 pm.