

IV. Textbook

You must have a copy of the textbook: "Mathematical Methods for Physicists", 7th ed., by Arfken, Weber, and Harris. It is very important that you read the Section(s) covered within each lecture and try to follow derivations before you come to that lecture. Please refer to the schedule below (subject to change) for such reading assignments. You should bring your textbook to the lectures.

You will find it extremely useful to have some mathematical references, handbooks, or tables, e.g., table of integrals. There are many options available from the Internet, but you should be cautious about the accuracy of information obtained there. One recommendation is [Abramowitz and Stegun: Handbook of Mathematical Functions](#), which can be downloaded freely. Another one is [Gradshteyn and Ryzhik](#). A handy collection of useful formula is the [NRL Plasma Formulary](#), which you can order a free copy or download it online.

V. Instructional method and reading assignments

The course is for 3 credits, and so 3 hours per week are devoted to "lectures" in the classroom. However,





