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Total Ship Systems Engineering (TSSE) Program (archived)

Monterey, California: Naval Postgraduate School

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TSSE

Total Ship Systems Engineering (TSSE) Program

****NOTE:** Update to the program dated 06/15/06 - certificate may be obtained with 6 courses. TS3002 & TS4000 have been removed from the list of requirements ***

Purpose:The TSSE program provides a broad-based, systems engineering and design oriented curriculum that focuses on the warship as a total engineering system including hull, mechanical, electrical (HM&E), and combat systems.

Eligibility: Students in the following curriculum/degree areas are eligible for the program: Naval Engineering (570)/Mechanical Engineering, Electronic Systems Engineering (590)/Electrical Engineering, Combat Systems (533)/Mechanical or Electrical Engineering or Physics.

Program Requirements: In addition to other degree and curriculum requirements, the TSSE students take the following 6 core courses:

1. TS 3000 Shipboard Electrical Power Systems (F)
2. ^{1,3}TS 3001 Fundamental Principles of Naval Architecture (W, Su)
3. ^{1,3}TS 3003 Naval Combat Systems Elements (W)
4. TS 4001 Design of Naval Engineering Systems (Sp)
5. TS 4002 Ship Systems Integration* (Su)
6. TS 4003 Total Ship Systems Engineering* (F)

¹Must be taken during the same quarter.

³Must be taken as an integrated sequence.

*Capstone Design Project

Notes:

- Students obtaining the MSEE do not need to take TS 3000 if they take EC 3150 as part of their degree program or if they complete the Power Systems option.
- Students must insure proper prerequisites to TSXXXX courses are taken prior to graduate level TSSE courses. Checkwith the TSSE coordinator for up to date information.

TSSE Program Director: For further information contact Prof. [Fotis Papoulias](#), MEA Department

