

Cape Cod Sail & Power Squadron

Offshore Navigation (ex-Junior Navigator) Course – 2019

Tuesdays -1900 to 2100 at Yarmouth Fire Station #2, 340 Rte 6A, Yarmouth Port (use lot in back)

Class Chairman	Hugh Blair-Smith	617-491-6787 cell, 508-385-3318(h)
CCSPS Educ Officer	John Crawford	508-240-4603
Ass't Educ Officer	Dave Atwood (mainly auditing course)	508-737-5374
Beach & Proctor	Paul Brown	508-255-9209
Beach & Proctor	Joe Williams	508-385-2176
West Dennis Beach	Bob David (also sight checking)	508-394-5670
East Falmouth Beach	Bob Sweet (also guest lectures)	508-274-2199 cell, 508-495-1607(h)
Sight Folder Checker	Lee Johnson (also beach & proctor)	508-398-7256

1. 17 Sep Distribute course materials (if not given out earlier)
 - Sign-out Sextants**
 - Introduction** – including presentation by P/V/C Bob Sweet of BBSPS
 - Lecture – Chapter 2 – The Sextant**
 - Lecture – Use of “Celestial Tools” for Meridian Transit (MT) Sun sights**
 - Arrange** – beach support team assignments to students, for both beach venues
 - Homework** - Read Introduction and Chapter 2; do problems Chapter 2
 - Preview** – Practice handling sextant; read Chapter 4 and Appendix D; try MT sight

2. 24 Sep **Review Homework** - Chapter 2
 - Lecture – Chapter 4 & Appendix D – Altitude Corrections & Sight Requirements**
 - Lecture – Use of “Celestial Tools” for LL and UL regular (non-MT) Sun sights**
 - Homework** – do Chapter 4 problems (Review by Apx E, and by email/phone as req'd)
 - Preview** - Learn “Celestial Tools” sight reduction for Sun (including Meridian Transit)

- October **No Classes – Take and log all Sun sights still required for your sight folder**
 - Remember** – using “Celestial Tools” to reduce tells you whether you beat the 5 nm max
 - Call on** – beach support team to schedule and perform sights on beaches
 - Discuss** – your rough sight log with your beach support team
 - Preview** – Read Chapter 1 Paras 1-8, 12-13, Figs 1-7, 1-9 (for definitions of terms)
 - Preview** – Read Chapter 3 Paras 1-4, 14, 18, 20-25, 28-31 (for definitions of terms)
 - Preview** – Read all of Chapter 6 (but remember LHA = 0° 00.0' at Meridian Transit)

3. 5 Nov **Review: Discuss experience taking Sun sights**, both regular and MT
 - Lecture – Selections from Chapter 3 – Sea Time (Zones, ZT-UT Conversions)**
 - Lecture – Selections from Chapter 6 – Light List for the Sky (GHA & Dec of Sun, no LHA)**
 - Lecture – Chapter 9 – Meridian Transit of the Sun**
 - Homework** – Do relevant problems Chapter 3: 6, 8, 11, 13, 19
 - Homework** – Do relevant problems Chapter 6: 1-4
 - Homework** – Do Chapter 9 problems
 - Homework** – Reduce your best Meridian Transit sight on Form MT07, for Sight Folder
 - Preview** – Read all of Chapter 1

4. 12 Nov **DIFFERENT LOCATION: T B D**
 - Review Homework** – Chapters 3, 6, 9 problems; **hand in MT07 forms for checking**
 - Lecture – Chapter 1 – Lighthouses in the Sky**
 - Lecture – Rest of Chapter 3 – Timekeeping, Global Zones, Time Diagram**
 - Lecture – Rest of Chapter 6 – Local Hour Angle (LHA) for Sun Sights**
 - Homework** – Prepare sight log for folder on Form ED-SL, guided by the text on its back
 - Homework** – do Chapter 1 problems
 - Homework** – do remaining Chapter 3 problems and Chapter 6 problems
 - Preview** – Read Chapter 5

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5. 19 Nov **BACK TO REGULAR LOCATION: FIRE STATION #2 YARMOUTH PORT**
Review Homework – Chapters 1, 3, 6 problems; **hand in Form(s) ED-SL for checking**
Lecture – Chapter 5 – Celestial Coordinates
Homework – do Chapter 5 problems, but we'll do Practical Exercise 1 in class
Preview – Read Chapter 7
 6. 26 Nov **Review Homework** – Chapter 5 problems
Lecture – Chapter 7 – The Celestial LOP including Law of Cosines
Homework – do Chapter 7 problem 1 by reducing your best AM & PM non-MT sights
Homework – do Chapter 7 problems 3-15
Preview – Read Chapter 8
 7. 3 Dec **Review Homework** – Chapter 7 problems; **hand in both SR96a forms for checking**
Lecture – Chapter 8 – Plotting Celestial LOPs including Running Fix
Homework – do Chapter 8 problem 1 by plotting your AM-PM RFIX on Form CLS 98
Homework – do Chapter 8 problems 2-4
Preview – Read Overview of 10-13 and Chapter 10
 8. 10 Dec **Review Homework** – Chapter 8 problems; **hand in Form CLS 98 for checking**
Sign-in sextants (can sign same one out again later if necessary)
Lecture – Chapter 10 – Before Casting Off – Route Planning
Homework – do Chapter 10 problems, keeping your dream cruise fairly simple
Preview – Read Chapter 11
 9. 17 Dec **Review Homework** – Chapter 10 problems; **hand in completed Sight Folder for review***
Lecture – Chapter 11 – Before Casting Off – Planning for Electronic etc. Navigation
Homework – do Chapter 11 problems (Practice Cruise – Part 1)
Preview – Read Chapter 12
 - 24, 31 Dec **No Classes - Happy Holidays including New Year!**
 10. 7 Jan **Review Homework** – Practice Cruise – Part 1
Lecture – Chapter 12 – Wind and Current
Homework – do Chapter 12 problems; complete Practice Cruise Part 1 if necessary
Preview – Read Chapter 13
 11. 14 Jan **DIFFERENT LOCATION: T B D**
Review Homework – Chapter 12 problems
Lecture – Chapter 13 – Underway
Homework – do Chapter 13 problems (Practice Cruise – Part 2)
 12. 21 Jan **BACK TO REGULAR LOCATION: FIRE STATION #2 YARMOUTH PORT**
Review Homework – Practice Cruise – Part 2; **hand in full Practice Cruise if possible**
Homework – complete Practice Cruise Part 2 if necessary
 13. 28 Jan **Review Practice Cruise open items; hand it in if not done previously**
 14. 4 Feb **Review Offshore Navigation course in general**
Preliminary Deadline for corrected Sight Folder, extendable but druther not!
Hand out Open-Book Exams
- Then: **No more classes; hand in exam when completed, not too much later please!**
We can't send sight folders to National until we can send all completed exams.

* This step must be done before we can order your exam. Not corrected yet, just complete and thus ready for our final review. As usual, we try to let National see only flawless sight folders from this squadron.