



**Nautical Sciences Diploma Program
Textbook Listing
Term 5 (4 year program)**

Required textbooks **MUST** be brought to class.

Recommended textbooks are an additional resource you may find helpful, but do not need to be purchased or brought to class.

Resources labelled **course manuals** will be made available to students in a digital format. Physical, spiralbound, course manuals can be purchased from the BCIT Bookstore.

ENAV 1070 – SIMULATED ELECTRONIC NAVIGATION – OPERATIONAL	
Course manual: <i>Simulated Electronic Navigation - Operational</i>	Required
<i>Bridge Procedures Guide by the International Chamber of Shipping</i> Available from the Nautical Mind	Recommended
<i>Guide to the Collision Avoidance Rules</i> Cockcroft & Lameijer 7 th edition (2011)	Recommended
ENAV 3105 – ELECTRONIC CHART DISPLAY AND INFORMATION SYSTEM	
Course manual: <i>ECDIS</i>	Required
<i>The ECDIS Manual: Volume 1</i> Thornton 2 nd edition (2019)	Recommended
<i>ECDIS Basics: A Guide to the Operational Use of Electronic Chart Display and Information Systems</i> Becker-Heins 2 nd edition (2014)	Recommended
<i>Integrated Bridge Systems Vol. 2: ECDIS and Positioning</i> Norris 2010	Recommended
NAUT 1260 – ORAL TUTORIAL 1	
<i>Theory and Practice of Seamanship</i> Danton 11 th edition (2003)	Recommended
<i>Seamanship Techniques: Shipboard and Marine Operations</i> House 5 th edition (2018)	Recommended
<i>Bridge Procedures Guide by the International Chamber of Shipping</i> Available from the Nautical Mind	Recommended

<i>International Code of Signals by the International Maritime Organization</i> (Out of print – Find on secondary market)	Recommended
<i>International Aeronautical and Maritime Search and Rescue Manual</i> International Maritime Organization Available from the International Maritime Organization	Recommended
NAUT 2203 – CELESTIAL NAVIGATION	
<i>Practical Navigation for Officers of the Watch</i> Frost 2 nd edition (2023)	Required
<i>American Practical Navigator: Volumes 1 and 2</i> Bowditch 2019	Recommended
<i>The Elements of Navigation and Nautical Astronomy</i> Cotter Available from the Nautical Mind	Recommended
<i>Dutton's Nautical Navigation</i> Cutler 15 th edition (2003)	Recommended
NAUT 2247 – PHYSICAL SCIENCE 2	
<i>Applied Physics</i> (Schaum's Outline) Beiser 4 th edition (2010)	Required
<i>Basic Electricity</i> (Schaum's Outlines) Gussow 2 nd edition (2010)	Required
<i>Beginning Physics: Volume 1</i> (Schaum's Outlines) Halpern 1995	Recommended
<i>Engineering Science</i> Bolton 7 th edition (2021)	Recommended
<i>Technical Physics</i> Green (Out of print – find on secondary market)	Recommended
<i>Reeds Vol. 2: Applied Mechanics for Engineers</i> Embleton & Jackson 7 th edition (2021)	Recommended
<i>Physics</i> Cutnell & Johnson 12 th edition	Recommended

NAUT 3200 – SHIP CONSTRUCTION 3	
<i>Ship Construction</i> Eyres 7 th edition (2012)	Required
<i>Ship Construction: Sketches and Notes</i> Kemp & Young (Out of print – find on secondary market)	Recommended
<i>Ship Knowledge: Ship Design, Construction, and Operation</i> Van Dokkum 11 th edition (2024)	Recommended
NAUT 3202 – SHIP STABILITY 3	
<i>Ship Stability for Masters and Mates</i> Barrass & Derrett 7 th edition (2013)	Required
Reference book: Ship Stability booklet: <i>Gypsum Centennial</i> (Book 1 of 2)	In class use
Reference book: Ship Stability booklet: <i>Atlantic Vision</i>	In class use
<i>Ship Stability for Mates/Masters</i> Rhodes 1 st edition (2012)	Recommended
<i>Stability, Trim and Strength for Merchant Ships and Fishing Vessels</i> Clark 2 nd edition (2008)	Recommended
<i>Stability and Trim for the Ship's Officer</i> George 4 th edition (2005) Available from the Nautical Mind or BMC library	Recommended
NAUT 3211 – SHIP CARGO 3	
Course manual: <i>Cadet Ship Cargo 3</i>	Required
Reference book: <i>Grain Loading Plan & Stability</i> booklet	In class use
Reference book: Ship Stability booklet: <i>Gypsum Centennial: Grain</i>	In class use
<i>Cargo Notes</i> Swadi 2 nd edition (2009)	Recommended
<i>Cargo Work: For Maritime Operations</i> House 9 th edition (2024)	Recommended

NAUT 3225 – SHIP NAVIGATION SAFETY 3	
<i>Guide to the Collision Avoidance Rules</i> Cockcroft & Lameijer 7 th edition (2011)	Recommended
<i>A Seaman's Guide to the Rule of the Road</i> Ford Available from the Nautical Mind	Recommended
<i>Bridge Procedures Guide by the International Chamber of Shipping</i> Available from the Nautical Mind	Recommended
<i>Bridge Team Management: A Practical Guide</i> Swift Available from the Nautical Mind	Recommended
NAUT 3235 – SHIP METEOROLOGY 3	
<i>Reeds Maritime Meteorology</i> Cornish & Ives 4 th edition (2019)	Required
<i>Meteorology Self-Instruction</i> Environment Canada (Students may bring their copy from NAUT2235 [Term 3], or re-purchase)	Required
<i>Notes on Meteorology</i> Kemp & Young	Recommended
<i>Weather for the Mariner</i> Kotsch (Out of print – find on secondary market)	Recommended
<i>The Mariner's Handbook</i> (Admiralty Nautical Publications) Hydrographic Office (Out of print – find on secondary market)	Recommended



**Nautical Sciences Diploma Program
Textbook Listing
Term 7 (4 year program)**

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NAUT 1832 – NAVIGATION SYSTEMS AND INSTRUMENTS	
<i>Electronic Navigation Systems</i> Tetley & Calcutt 3 rd edition (2001)	Required
<i>American Practical Navigator</i> Bowditch 2019	Recommended
<i>Compass Work</i> Kemp & Young (Out of print – find on secondary market)	Recommended
NAUT 1855 – METEOROLOGY 2	
<i>Reeds Maritime Meteorology</i> Cornish & Ives 4 th edition (2019)	Required
<i>Meteorology Self-Instruction</i> Environment Canada (Students may bring their copy from NAUT2235 [Term 3], or re-purchase)	Recommended
<i>Meteorology for Seafarers</i> Frampton and Uttridge 5 th edition (2017)	Recommended
<i>Passage Planning Guidelines</i> Salmon 4 th edition (2016)	Recommended
<i>Admiralty Ocean Passages for the World</i> British Admiralty 2014	Recommended
<i>International Marine's Weather Predicting Simplified: How to Read Weather Charts and Satellite Images</i> Carr	Recommended

<i>Understanding Weatherfax: A Guide to Forecasting the Weather from Radio and Internet Charts</i> Harris 2 nd edition	Recommended
NAUT 1857 – SHIP MANAGEMENT 3	
<i>The Shipmaster's Business Companion</i> Maclachlan (A Google search will lead to finding the availability of a pdf copy.)	Required
<i>Chartering and Shipping Terms</i> Bes (Out of print – find on secondary market)	Recommended
<i>Maritime Law: Essentials of Canadian Law</i> Gold, Chircop, & Kindred 2 nd edition (2016)	Recommended
<i>Commercial Management for Shipmasters</i> Tallack 1999	Recommended
<i>The Shipmaster's Business Self-Examiner</i> Maclachlan 10 th edition (2016)	Recommended
NAUT 1869 – ENGINEERING KNOWLEDGE 1	
<i>Introduction to Marine Engineering</i> Taylor 2 nd edition (2007)	Required
<i>Reeds Instruments and Control Systems for Deck Officers</i> Embleton 5 th edition (2009)	Recommended
<i>Reeds Vol. 8: General Engineering Knowledge for Marine Engineers</i> Russell 7 th edition	Recommended
<i>Marine Auxiliary Machinery</i> McGeorge 7 th edition (1999)	Recommended
NAUT 1878 – CARGO 3	
Course manual: <i>Cargo 3</i>	Required
Reference book: <i>Grain Loading Plan & Stability</i> booklet	In class use
Reference book: Ship Stability booklet: <i>Gypsum Centennial: Grain</i>	In class use
<i>Code of Safe Practice for Cargo Stowage and Securing</i> International Maritime Organization Available from the International Maritime Organization	Recommended

<i>Tankers: An Introduction to the Transport of Oil by Sea</i> Valois <i>(Out of print – find on secondary market)</i>	Recommended
<i>Tanker Operations: A Handbook for the Person-in-Charge</i> Huber 5 th edition (2010)	Recommended
<i>Cargo Notes</i> Swadi 2 nd edition (2009)	Recommended