the latitude by meridian altitude of the sun, of a star, by an ex-meridian altitude of the sun; finding the longitude by chronometer; the variation and deviation of the compass by an amplitude and by an azymuth, to find the times of high water; the correction of soundings; to make observation for the formation of the table of deviations, its application, also the laying off and use of Napier's diagram; the use of the chart of instruments; the rule of the road and all other subjects comprised in the *viva voce* examination before the Dominion Board of Examiners.

SECOND COURSE.

An extended study of practical navigation and nautical astronomy. To find the latitude by a meridian altitude of the moon, of circum-polar stars, by an ex-meridian altitude of the pole star, by double altitudes of a celestial body (Summer's and Ivory's methods); to find the longitude by double altitudes, by lunar observations; to rate a chronometer by equal altitudes; the use of the artificial horizon, the laws of storms, etc., etc.

THIRD COURSE.

Theory.

Mathematical investigation of the different rules and formulæ used in nautical science.

The Matriculation fee is $15 for those studying to pass for a mate's certificate before the Dominion Board of Examiners,