## Navigation Instructional Standards

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This is a summary of the instructional standards in the club-wide navigation standards. There are details and other standards in [this document](https://www.mountaineers.org/locations-lodges/seattle-branch/committees/seattle-navigation-committee/files/minimum-clubwide-standard-for-navigation/view). The highlighted items either need a look or are missing in our course.

Lecture: Topo maps

* Declination
* Colors
* Scale
* Features: Contours and topographic features, up and down, water, vegetation, types of black lines

Lecture: Compass use

* Compass parts
* Understanding bearings
* Follow a bearing
* Take a bearing
* Compass use elements: boxing needle, direction of travel, posture, sighting

Lecture: Compass and map

* Measure a bearing
* Plot a bearing
* Line and point position
* UTM coordinates
* Plan a route, including handrails, aiming off, and backstops or catchlines

Field: Topo map to terrain

* Orient using compass and terrain
* Relate map points to landmarks
* Relate contour lines to terrain
* Relate map distance to actual distance

Field: Compass use

* Demonstrate proper techniques
* Taking bearings
* Follow a bearing cross-country as a team
* Follow a bearing cross-country solo
* Navigate around an obstacle

Field: Determine line and point position using one of several techniques

Field: Plan and follow a route (handrail, backstop, etc.)

Field: “Long navigation problem” (at least 500m or 1760ft)