# Physical Geography Appendix A – Reporting Coordinates

Coordinates must be written correctly and consistently to ensure that they are both accurate and useful. The following will be the standards used in the class. You must conform to these standards to receive full credit on quizzes, labs, and exams!

# Degrees Minutes Seconds (DMS)

- Report the latitude first, then longitude.
- Degrees should be have the ° symbol after the number
- Minutes should have the 'symbol after the number
- Seconds should have the "symbol after the number
- The direction must be given after the latitude and longitude (N, E, S, W)

# Decimal Degrees (DD)

- Report the latitude first, then longitude
- Coordinates south of the equator and west of the prime meridian must have a negative symbol (-)
- Round the number to five decimal places

#### Universal Transverse Mercator (UTM)

- Report the easting first, then northing (over, then up)
- Write "mE" after the easting and "mN" after the northing

### Public Land Survey System (PLSS)

- PLSS coordinates must be reported from smallest to largest.
  - o Give the aliquot divisions, then the section, then the township, then the range, and finally the baseline and meridian.
- For quarter sections and other aliquot divisions, give the locational reference first, then the fraction (e.g. SW ¼, N ½, etc.)
- The following abbreviations may be used:

o The southwest quarter of the northeast quarter of section 14, township 7 north, range 13 west = SW ¼, NE ¼, Sec. 14, T. 7 N, R. 13 W

# Reporting azimuth

- Azimuth is always reported with three digits, using a zero in front if the number is less than 100 and two zeroes if less than 10.
- Example: 90° should be written as 090° when reporting an azimuth