RECOMMENDED TEXTS FOR THE SYMPLECTIC GEOMETRY MASTER CLASS

From the listed references, [2] is the most basic text.

[3] is a symplectic topology textbook, rather than a symplectic geometry one, and it covers much more than what will be done in the course. The required background is higher than for [2], but some of the sections are still accesible (section I, called foundations, and chapters 5 and 6 in section II).

[1] is a good reference for Hamiltonian torus actions and toric manifolds; it also contains sketchy introductions to smooth Lie group actions on manifolds and to symplectic geometry.

[4] is the oldest of the recomended texts, and it is oriented to quantization. It has been, and it still is, a classical reference in the subject. Lectures 1 to 5 are the most basic ones.

REFERENCES

[1] Audin, Michèle. *Torus actions on symplectic manifolds.* Second revised edition. Progress in Mathematics, 93. Birkhäuser Verlag, Basel, 2004. viii+325 pp. ISBN: 3-7643-2176-8.

[2] Cannas da Silva, Ana. *Lectures on symplectic geometry.* Lecture Notes in Mathematics, 1764. Springer-Verlag, Berlin, 2001. xii+217 pp. ISBN: 3-540-42195-5.

[3] McDuff, Dusa; Salamon, Dietmar. *Introduction to symplectic topology.* Second edition. Oxford Mathematical Monographs. The Clarendon Press, Oxford University Press, New York, 1998. x+486 pp. ISBN: 0-19-850451-9.

[4] Weinstein, Alan. *Lectures on symplectic manifolds.* Expository lectures from the CBMS Regional Conference held at the University of North Carolina, March 8–12, 1976. Regional Conference Series in Mathematics, No. 29. American Mathematical Society, Providence, R.I., 1977. iv+48 pp.