

## Course Information

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**Textbook.** J.E. Humphreys, *Linear Algebraic Groups*, Graduate Texts in Mathematics no. 21, Springer-Verlag, 1975.

**Course outline.** The main content of the course will be from Chapters II, IV, and V–X of the textbook. We will cover selected topics from Chapter I as we need them, and if time permits at the end of the semester, we may cover a few topics from Chapter XI.

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| Varieties, algebraic groups, quotients (Chap. I, II, IV) | 2–3 weeks |
| Semisimple, nilpotent, solvable (Chap. VI, VII)          | 3–4 weeks |
| Borel subgroups and maximal tori (Chap. VIII, IX)        | 3–4 weeks |
| Reductive groups (Chap. X)                               | 2–3 weeks |
| Classification & other topics (Chap. XI)                 | 2 weeks   |

**Homework.** Homework exercises will be due approximately once every two weeks. All the homework exercises will be posted on my webpage. It is likely that not every homework question will be graded.

**Exams.** There will be no timed exams. In lieu of a final exam, the last homework assignment will be due at the scheduled time for the final exam: Tuesday, December 9, 12:30pm.