



**LUND**  
UNIVERSITY

No. 2

Centre for Mathematical Sciences  
Mathematics, Faculty of Science

## Algebraic Structures, Spring semester 2019

### Programme 22.1–15.3

Lectures start Tuesday 22.1 at 13:15–15:00 in MH:H. The course continues on Tuesdays 13:15–15:00 and Fridays 13:15–15:00.

**Literature:** Thomas W. Hungerford, *Abstract Algebra: An Introduction*, 3rd ed., Brooks/Cole CENGAGE Learning, 2014, International Edition, ISBN: 978-1-111-57333-1

<b>Tuesday 22/1</b>	Study: Chapter 1 Solve:
<b>Friday 25/1</b>	Study: Chapter 2 Solve: 1.1: 7, 10, 1.2: 13, 27, 1.3: 30, 34, [1.1: 1, 4, 8, 1.2: 19, 26, 1.3: 2, 10, 28]
<b>Tuesday 29/1</b>	Study: 3.1 and 3.2 until page 63 Solve: 2.1: 16, 20, 2.2: 13, 14, 2.3: 8, 10, [2.1: 9, 21, 2.2: 2, 7, 2.3: 11, 15]
<b>Friday 1/2</b>	Study: the rest of 3.2 and 3.3 Solve: 3.1: 11, 29, 31, 3.2: 9, 32 [3.1: 23, 43]
<b>Tuesday 5/2</b>	Study: 4.1 and 4.2 Solve: and hand in 3.2: 24, 3.3: 31, 32, 40
<b>Friday 8/2</b>	Study: 4.3 and 4.4 Solve: 4.1: 6, 13, 21, 4.2: 5a),c),f), 12, [4.1: 4, 15, 4.2: 4, 8]
<b>Tuesday 12/2</b>	Study: 5.1–5.3 Solve: 4.3: 12, 23, 4.4: 11, 24, 26, [4.3: 14, 21, 4.4: 10, 28]
<b>Friday 15/2</b>	Study: 6.1, 6.2 Solve: 5.1:12, 5.2: 6, 15, 5.3: 2, 8, [5.1: 5, 5.2: 14, 5.3: 9]

*Please, turn over!*

<b>Tuesday 19/2</b>	Study: 7.1 Solve: 6.1: 25, 41, 6.2: 10, 21, 30, [6.1: 15, 20, 6.2: 17, 23]
<b>Friday 22/2</b>	Study: 7.2, 7.3 Solve: 7.1: 6, 13, 16, 29, 33, [7.1: 10, 17, 23, 32]
<b>Tuesday 26/2</b>	Study: 7.4 and 7.5 until page 231 Solve: 7.2: 15, 38, 7.3: 19, 36, 47, [7.2: 18, 35, 7.3: 9, 15, 56]
<b>Friday 29/2</b>	Study: the rest of 7.5 and 8.1 Solve: 7.4: 20, 42, 50, 7.5: 26, 31, [7.4: 13, 36, 7.5: 19, 25]
<b>Tuesday 5/3</b>	Study: 8.2, 8.3 Solve: and hand in 7.5: 15, 24, 8.1: 20, 25, 44, [7.5: 27, 40, 8.1: 11, 32, 40]
<b>Friday 8/3</b>	Study: 8.4 Solve: 8.2: 19, 32, 8.3: 19, 33, 35, [8.2: 10, 35, 8.3: 13, 27, 28]
<b>Tuesday 12/3</b>	Study: 11.1–11.2 Solve: 8.4: 20, 27, 34, 42, [8.4: 13, 30, 36, 41]
<b>Friday 15/3</b>	Study: 16.1–16.2 Solve: 11.1: 35, 11.2: 20, 22, [11.1: 34, 11.2: 18, 23] [Suggested exercises in Chapter 16: 16.1: 18, 19, 21, 16.2: 7, 12, 15]

The exercises within [ ] are “suggested additional exercises”, and there will probably not be time to discuss these in the class room.

Written exam takes place Wednesday March 20, 08:00–13:00 in MA9 F. Associated oral exams during the period March 25 – March 29.

Second written exam: Saturday April 27, 08:00–13:00 in 309A, with oral exams May 3–7.

Third written exam: Saturday August 24, 08:00–13:00.