

INTRODUCTION TO HOMOLOGICAL ALGEBRA

CARDONA, ROBERT *MRROBERTCARDONA@GMAIL.COM*, KHOSHBIN, MASSY *MASSY255@GMAIL.COM*,
AND MORTEZAVI, SIAVASH *SIAVASH.MORTEZAVI@GMAIL.COM*

ABSTRACT. Module Theory.

1. MATH 697 ASSIGNMENTS LIST

List of Assignments:

(1) Summer Review 1

- (a) Page 349: Prove the four Isomorphism Theorems.
- (b) Page 350: Do exercises 1-11.
- (c) Page 356: Do exercises 3, 4, 5, 9, 10, 15, 16, 22.
- (d) Read Section 10.4 (Tensor Products of Modules).

(2) Summer Review 2

- (a) Finish 22 C
- (b) Atiyah/MacDonald 2.1, 2.2
- (c) Snake Lemma
- (d) Rotman: 2.27, 2.28, 2.29, 2.30, 2.32, 2.33, 2.34, 2.38 (left exactness), 2.63 (right exactness).

DEPARTMENT OF MATHEMATICS, CALIFORNIA STATE UNIVERSITY LONG BEACH