AMS MAJOR REQUIREMENT CHECKLIST
(Letter grade of "C" or higher must be earned for satisfaction of course)

Starting Fall 2021 Semester

Name:_____ ID #_____

Checklist for Major Requirements
For Applied Mathematics and Statistics

_____ 1. (Calculus I & II Single Variable sequence) AMS 151 & 161; or MAT 131 & 132; or MAT 125 & 126 & 127; or MAT 141 & 142

_____ 2. (Calculus III Multivariable Calculus) AMS 261; or MAT 203; or MAT 205

_____ 3. (Applied Linear Algebra) AMS 210 or MAT 211

_____ 4. (Computer programming) AMS 325; or CSE 101; or CSE 114; or ESG 111; or MEC 102; or ESE 124; or MAT 331; or PHY 277; or ISE 108; or BME 120; CHE 358

_____ 5. AMS 301 & AMS 310 (Students with equivalent to AMS 310 <u>must</u> take AMS 311, and AMS 311 may not be used also as an upper division elective for #7 below)

_____ 6. AMS 315; or AMS 361; or MAT 303; or MAT 305

_____ 7. Six additional upper division (300 level or above) courses. At most, two (2) of the six (6) courses may be counted as electives from the following courses: AMS 475, AMS 476, AMS 487, non-AMS upper division mathematically-oriented courses. For example, Non-AMS courses may include some engineering, MAT, PHY, CSE as well as ECO and BUS courses, such as ECO 303 & ECO 305 (together); ECO 321; ECO 348; BUS 355. Be sure to check with the AMS Department if the non-AMS course you select will satisfy an AMS requirement.

a. AMS _____ 3 credits   d. AMS _____ 3 credits

b. AMS _____ 3 credits   e. _____ 3 credits

c. AMS _____ 3 credits   f. _____ 3 credits

_____ 8. Technical writing (WRTD) AMS 300; or any AMS/Non-AMS course with the WRTD designation

Combined Courses:
ECO 355=AMS 335; MAT 312=AMS 351; CSE 355=AMS 345; BIO 332=AMS 332