

AMS MAJOR REQUIREMENT CHECKLIST

(Letter grade of "C" or higher must be earned for satisfaction of course)

*For Freshmen students entering SBU Fall 2014 and thereafter
For New Transfer students entering SBU Spring 2015 and thereafter*

Name: _____ ID # _____

Checklist for Major Requirements For Applied Mathematics and Statistics

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

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

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

_____ 4. (computer programming) CSE 101; or CSE 114; or CSE 130; or ESG 111; or MEC 101 & 102; or ESE 124; or MAT 331; or PHY 277; or ISE 108; or BME 120

_____ 5. AMS 301 & AMS 310 (students with equivalent to 310 must take 311)

_____ 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. Non-AMS courses may include some MAT, PHY, CSE, ENG as well as ECO and BUS courses, such as ECO 303 & ECO 305; ECO 321; ECO 348; BUS 355. Be sure to check with the AMS Department if the non-AMS course you select will satisfy the 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. SBC Writing and Speaking requirements may be satisfied by AMS 300 or from an applicable major. Technical writing requirements may be satisfied by AMS 300, AMS 318, AMS 333, AMS 412, AMS 441 or from an applicable major. In many cases, AMS 475/476/487 may be used to meet the SPK and/or WRTD requirements. Please check with the AMS Department.

Combined Courses:

ECO 355 = AMS 335; MAT 312 = AMS 351; CSE 355 = AMS 345