**Pre-Approved Support Courses for the BS Applied Math Concentration in Statistics**

BS Applied Math, Concentration in Statistics majors are required to take two lower division and two upper division support courses which can come from a variety of areas where math can be applied. If you want Math Dept. approval for a combination of support courses that are not on the pre-approved list you should check with Dr. Marilyn Blockus MH 311 [marilyn.blockus@sjsu.edu](mailto:marilyn.blockus@sjsu.edu) .

Accounting:

8 units of Lower Division Support: Bus1 20N and Econ 1B

6 units of Upper Division Support: Bus1 121A and Bus1 121B

Astrophysics/Physics:

8 units of Lower Division Support: Phys 50, and one of Phys 51 or Phys 52;

6 units of Upper Division Support: One of the following options 1) Astr 117A and Astr 117B; 2) Phys 105A and Phys 105B; 3) Phys 110A and Phys 110B; 4) Phys 122 and Phys 163.

Biology:

8 units of Lower Division Support: Biol 30, Biol 31;

6 units of Upper Division Support: One of the following options 1) Biol 115 and one of Biol 116, Biol 117, 118 or 119; 2) Biol 160 and one of Biol 155 or Biol 156; 3) Biol 123A and Biol 123B (equivalent to CS 123AB)

Computer Science:

8 units of lower division support 1a) Phys 50, and one of Phys 51 or Phys 52; or 1b) Econ 1A and Econ 1B

6 units of upper division support 1c) 2 upper division CS courses chosen from the following list:

CS 116A, 122, 134, 146, 151, 155, 156, 157A, 159, 166, or

or 2) 4 upper division CS courses chosen from the list above to satisfy both the LD and UD support requirements.

Economics:

8 units of Lower Division Support: Econ 1A and Econ 1B;

6 units of Upper Division Support: Two courses chosen from: Econ 101, Econ 102, Econ 103, Econ 104, Econ 106, Econ 137A, Econ 138, or Econ 139

Electrical Engineering:

8 units of Lower Division Support: Phys 50, and one of Phys 51 or Phys 52;

6 units of Upper Division Support: One of the following options: 1) EE 98, EE 140, and EE 142; 2) EE 98, EE 112, and one of EE 110 or EE 153.

Finance:

8 units of Lower Division Support: Econ 1A and Econ 1B

6 units of Upper Division Support: Bus1 170 and one of Bus1 172A or Bus1 174

Industrial and Systems Engineering:

8 units of Lower Division Support: Phys 50, and one of Phys 51, Phys 52, or Math 177;

6 units of Upper Division Support: One of the following options: 1) ISE 131 and ISE 135; 2) ISE 167 and ISE 170.

Management:

8 units of Lower division Support: Econ 1A and Econ 1B

6 units of Lower Division Support: Two courses chosen from: Bus5 141, Bus5 144, or Bus5 146

Marketing:

8 units of Lower division Support: Econ 1A and Econ 1B

6 units of Lower Division Support: Bus2 130 and Bus2 138

Mathematics

8 units of Lower Division Support: One of the following options 1) Phys 50 and one of Phys 51 or Phys 52, 2) Econ 1A and Econ 1B;

6 units of Upper Division Support: Two courses from Math 142, 143C, 143M, 150, 162, one of 170 or 178 (not already used to satisfy other degree requirements) or 6 other units of approved upper division math approved by the Math Department.

Mechanical Engineering:

8 units of Lower division Support: Phys 50 and one Phys 51 or Phys 52;

6 units of Upper Division Support: Two courses chosen from: ME 101, ME 111, ME 113, ME 114

Meteorology:

8 units of Lower Division Support: Phys 50, and one of Phys 51 or Phys 52;

6 units of Upper Division Support: Metr 121A and Metr 121B.

Physical Chemistry:

8 units of Lower Division Support: Phys 50, and one of Phys 51 or Phys 52;

6 units of Upper Division Support: Chem 161A and Chem 161B.

Quantitative Business Analysis:

8 units of Lower Division Support: Econ 1A and Econ 1B

6 units of Upper Division Support: Two courses chosen from Bus2 190, Bus2 191, or Bus2 193