

BS in Applied Mathematics: Course Requirements – pre-Fall 2015

MATH Courses:

Core courses (take 1 core course/term):

- __MATH 1501 Calculus I (4)
- __MATH 1502 Calculus II (4)
- __MATH 2401 Calculus III (4)
- __MATH 2403 Differential Eq. (4)

Bridging courses:

- __MATH 2406 Abst. Vector Spaces (3)
- __MATH 3012 Applied Combin. (3)
- __MATH 3215 Prob. and Stat. (3)

Upper level foundation courses:

- __MATH 4107 Abstract Alg. I (3)
- __MATH 4317 Real Analysis I (3)
- __MATH 4318 Real Analysis II (3)
- __MATH 4320 Complex Analysis (3)

Upper level courses:

- __MATH 4640 Numerical Analysis I (3)

MATH 4XXX Math Elective (15)

Upper level MATH courses of the students choosing; such as Topology, Number Theory, Combinatorial Analysis, Partial Differential Equations, Graph Theory, Dynamics & Bifurcations, Statistics, Information Theory, Stochastics, Undergraduate Research, etc.

Supporting courses:

- __CS 1301 Intro to Computing (3)
- __CS 1331 Intro Obj-oriented Prog. (3)
- __Lab Sci (BIOL, CHEM, EAS) (4)
- __PHYS 2211 Physics I (4)
- __PHYS 2212 Physics II (4)

Upper level supporting courses:

- __PHYS 3XXX Upper level Phys. (3)

Sci/Eng Electives (6) Two upper level courses from same approved school

Approved schools: Biol, Chem, EAS, Phys, Psyc, Eng Schools, CS, Econ

General Requirements:

Humanities (12 total):

- __ENGL 1101 (3)
- __ENGL 1102 (3)

Humanities/Fine Arts Elective (6):

Approved HUM courses, such as Literature, Phil, Foreign Language, etc.

Social Sciences (12 total):

- __One of HIST 2111, HIST 2112, POL 1101, INTA 1200, PUBP 3000 (3)

Social Science Electives (9): approved SS courses, such as Economics, Psychology, History, etc.

- __APPS 1040 or APPS 1050 –Wellness (2)

Global Perspective (3) _____

This course may be chosen to also count as a Humanities course or as a Social Science course.

Free Electives (14)

Total: 122 hours