

Bachelor of Science in Mathematics -- Actuarial Science Concentration

0. _____ APSU 1000 (1) Freshmen Seminar

I. Communications -- 9 hours

_____ ENGL 1010 (3) English Comp. I
_____ ENGL 1020 (3) English Comp. II
_____ COMM 2045 (3) Public Speaking

II. History -- 6 hours -- *Select any two courses below.*

_____ HIST 2010 (3) Early US Hist.
_____ HIST 2020 (3) Modern US Hist.
_____ HIST 2030 (3) Hist. of TN
_____ HIST 2310 (3) Early World Hist.
_____ HIST 2320 (3) Modern World Hist.

III. Humanities and/or Fine Arts -- 9 hours

_____ ENGL 2330 (3) Topics in World Lit. (or HON 2220)
*Select one course from each of two disciplines below
or complete one Foreign Language sequence*
_____ ART 1035 (3) Intro to Art
_____ DANC 1200 (3) Intro to Dance
_____ MUS 1030 (3) Intro to Music
_____ MUS 2030 (3) World Music
_____ MUS 2200 (3) Popular World Music
_____ PHIL 1030 (3) Intro to Philosophy
_____ PHIL 1040 (3) Intro to Ethics
_____ PHIL 2200 (3) Religion and the World
_____ THEA 1030 (3) Intro to Theatre
_____ FREN 1010 (3) Intro French I
_____ FREN 2010 (3) Intro French II
_____ GERM 1010 (3) Intro German I
_____ GERM 2010 (3) Intro German II
_____ GREK 1010 (3) Intro Greek I
_____ GREK 2010 (3) Intro Greek II
_____ LATN 1010 (3) Intro Latin I
_____ LATN 2010 (3) Intro Latin II
_____ SPAN 1010 (3) Intro Spanish I
_____ SPAN 2010 (3) Intro Spanish II

IV. Natural Sciences -- 8 hours

Select any two courses listed below.
_____ ASTR 1010/1011 (4) Planetary Astr.
_____ ASTR 1020/1021 (4) Stellar Astr.
_____ BIOL 1010/1011 (4) Intro to Bio.
_____ BIOL 1020/1021 (4) Diversity of Life
_____ BIOL 1040/1041 (4) Human Bio.
_____ BIOL 1110/1111 (4) Gen. Bio. I
_____ BIOL 1120/1121 (4) Gen. Bio. II
_____ BIOL 2010/2011 (4) Hum. Anat. and Phys. I
_____ BIOL 2020/2021 (4) Hum. Anat. and Phys. II
_____ BIOL 2400 (4) Sustaining Biodiversity
_____ CHEM 1010/1011 (4) Intro. Chem I
_____ CHEM 1020/1021 (4) Intro. Chem. II
_____ CHEM 1050/1051 (4) Chem. For Everyone
_____ CHEM 1110/1111 (4) Gen. Chem. I
_____ CHEM 1120/1121 (4) Gen. Chem. II
_____ CHEM/PHYS 1710/1711 (4) Intro Chem. and Phys.
_____ GEOL 1040/1041 (4) Physical Geo.
_____ GEOL 1050/1051 (4) Historical Geo.
_____ PHYS 1010/1011 (4) Concepts: Motion,...
_____ PHYS 1020/1021 (4) Concepts: Electromagnetism,...

V. Social and Behavioral Science -- 6 hours

Select one course from each of two disciplines below.
_____ AAST 2200 (3) Intro African-American Studies
_____ COMM 1110 (3) Media and Social Institutions
_____ CRJ 1010 (3) - Intro Criminal Justice
_____ ECON 2000 (3) Contemporary Economics
_____ ECON 2100 (3) Princ. Of Macroeconomics*
_____ GEOG 1015 (3) Physical Geography
_____ GEOG 1035 (3) World Regional Geo. I
_____ GEOG 1045 (3) World Regional Geo. II
_____ HHP 1250 (3) Wellness Concepts
_____ LDSP 2100 (3) Found. Of Leadership
_____ POLS 2000 (3) Intro to Politics
_____ POLS 2010 (3) American Nat. Gov.
_____ POLS 2040 (3) Intro Public Policy
_____ POLS 2070 (3) Interntl. Politics
_____ PSYC 1010 (3) Intro to Psychology
_____ PSYC 1050 (3) Psycho. of Mod Culture
_____ SOC 1010 (3) Intro to Sociology
_____ SOC 1040 (3) Social Problems
_____ SOC 2900 (3) Marriage and Family
_____ SW 2110 (3) Intro to Social Work
_____ WGS 2050 (3) Women and Culture
* required for actuarial science concentration

VI. Programming Requirement

Select from one course below.

_____ MATH 4321 (3) Introduction to Data Analysis
_____ CSCI 1010/1011 (4) Intro to Programming
_____ CSCI 2000 (4) Programming for STEM

VII. Mathematics Core

_____ MATH 1910 (4) Calculus I
_____ MATH 1920 (4) Calculus II
_____ MATH 2110 (4) Calculus III
_____ MATH 3010 (3) Intro Math Reasoning
_____ MATH 3450 (3) Linear Algebra
_____ MATH/STAT 4240 (3) Probability
_____ MATH 4450 (3) Mathematical Models
_____ MATH/STAT 4810 (1) Senior Seminar

VIII. Actuarial Science Concentration

_____ MATH 4130 (3) Financial Mathematics
_____ MATH 4190 (3) Fund. Of Actuarial Math
_____ STAT 3250 (3) Statistical Methods
_____ STAT 4120 (3) Regression Analysis
_____ STAT 4140 (3) Time Series Analysis
_____ STAT 4250 (3) Mathematical Statistics
_____ ACCT 2010/2011 (3) Princ. of Accounting I
_____ ECON 2100 (3) Princ. of Macroeconomics
_____ ECON 2200 (3) Princ. of Microeconomics
_____ FIN 3010 (3) Principles of Finance
_____ MATH/STAT 3000-4999 (3) Elective
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