

Bachelor of Science Degree in Mathematics -- Mathematics Option

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.
Select one course from each of two disciplines below.
_____ 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

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 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) Phys. World
_____ PHYS 1020/1021 (4) Phys. World II
_____ PHYS 2010/2021 (4) Coll. Phys. I
_____ PHYS 2020/2021 (4) Coll. Phys. II
_____ PHYS 2110/2111 (4) Univ. Phys. I
_____ PHYS 2120/2121 (4) Univ. Phys. II

V. Social and Behavioral Science -- 6 hours

Select one course from each of two disciplines below.
_____ AAST 2200 (3) Intro African-American Studies
_____ COMM 2020 (3) Media, Society, and Individual
_____ ECON 2010 (3) Princ. Of Macroeconomics
_____ GEOG 1010 (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) Interntnl. Politics
_____ PSY 1010 (3) Gen Psychology
_____ PSY 1050 (3) Psycho. of Mod Culture
_____ SOC 1010 (3) Intro to Sociology
_____ SOC 1040 (3) Social Problems
_____ SOC 2900 (3) Marriage and Family
_____ WS 2050 (3) Intro W&G Study

VI. Computer Science

_____ CSCI 2000 (4) Programming

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 4240 (3) Probability
_____ MATH 4450 (3) Mathematical Models
_____ MATH 4810 (1) Senior Seminar

VIII. Mathematics Specialization

_____ MATH 3120 (3) Differential Eqs. I

*Select six courses listed below, including all of either the * classes or the ** classes*

_____ MATH 3000 (3) Discrete Mathematics
* _____ MATH 3130 (3) Differential Eqs. II
_____ MATH 4010 (3) History of Math
** _____ MATH 4110 (3) Number Theory
_____ MATH 4160 (3) Complex Analysis
_____ MATH 4210 (3) Topology
_____ MATH/STAT 4260 (3) Stochastic Proc.
_____ MATH 4310 (3) Machine Learning
* _____ MATH 4460 (3) Applied Mathematics
** _____ MATH 4500 (3) Modern Algebra
* _____ MATH 4670 (3) Numerical Analysis
** _____ MATH 4710 (3) Real Analysis
_____ STAT 3250 (3) Statistical Methods
_____ STAT 4120 (3) Regression Analysis
_____ STAT 4130 (3) Experimental Design
* _____ STAT 4250 (3) Mathematical Statistics
_____ STAT 4270 (3) Nonparametric Stats

* Required as Major Guided Electives
for the Applied Mathematics track

** Required as Major Guided Electives
for the Pure Mathematics track

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