MATHEMATICS MAJOR REQUIREMENTS: ADVISEMENT FORM BACHELOR OF SCIENCE DEGREE

Name:

| Calculus and Analytic Geometry I Calculus and Analytic Geometry II Introduction to Linear Algebra Introduction to Differential Equations Multivariable Calculus Introduction to Mathematical Analysis I Introduction to Mathematical Analysis II OR Mathematics Analysis | Semester/Year | Grade | |
|---|--|--|--|
| Calculus and Analytic Geometry II Introduction to Linear Algebra Introduction to Differential Equations Multivariable Calculus Introduction to Mathematical Analysis I Introduction to Mathematical Analysis II OR | | | |
| Introduction to Linear Algebra Introduction to Differential Equations Multivariable Calculus Introduction to Mathematical Analysis I Introduction to Mathematical Analysis II OR | | | |
| Introduction to Differential Equations Multivariable Calculus Introduction to Mathematical Analysis I Introduction to Mathematical Analysis II OR | | | |
| Multivariable Calculus Introduction to Mathematical Analysis I Introduction to Mathematical Analysis II OR | | <u> </u> | |
| Introduction to Mathematical Analysis I Introduction to Mathematical Analysis II OR | | | |
| Introduction to Mathematical Analysis II OR | | | |
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| Mathematics Analysis | | | |
| With the state of | | | |
| Computer Science I | | | |
| Introductory Physics I | | | |
| Introductory Physics II | | | |
| as upper level electives for the major. At least | | | Grade |
| | Semes | ter/ rear | Grade |
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| | as upper level electives for the major. At least | Introductory Physics I Introductory Physics II Mathematics/Statistics Electives e numbered higher than MATH 302. MATH 380, MATH 432, S as upper level electives for the major. At least THREE of these | Introductory Physics II Mathematics/Statistics Electives e numbered higher than MATH 302. MATH 380, MATH 432, STAT 350 as upper level electives for the major. At least THREE of these courses Semester/Year |

| CMPE 320 | Probability Statistics and Random Processes |
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| CMPE 323 | Signal and System Theory |
| CMSC 203 | Discrete Structures (Must be taken before MATH 301 to be accepted) |
| CMSC 341 | Data Structures |
| CMSC 441 | Algorithms |
| CMSC 442 | Information and Coding Theory |
| CMSC 443 | Cryptography |
| CMSC 451 | Automata Theory and Formal Languages |
| $\rm CMSC~452$ | Logic for Computer Science |
| CMSC 453 | Applied Combinatorics and Graph Theory |
| ECON 311 | Intermediate Economic Analysis |
| ECON 374 | Fundamentals of Financial Management |
| ECON 417 | The Economics of Strategic Interaction |
| ECON 421 | Introduction to Econometrics |
| EDUC 320 | Teaching Mathematics in the Elementary School |
| EDUC 426 | Teaching Mathematics in the Secondary School |
| ENCH 300 | Chemical Processes and Thermodynamics |
| ENME 217 | Engineering Thermodynamics |
| ENME 315 | Intermediate Thermodynamics |
| ENME 342 | Fluid Mechanics |
| ENME 410 | Operations Research |
| MATH 432 | History of Mathematics |
| PHIL 248 | Introduction to Scientific Reasoning |
| PHIL 346 | Deductive Systems |
| PHIL 372 | Philosophy of Science |
| PHYS 224 | Introductory Physics III |
| PHYS 303 | Thermal and Statistical Physics |
| PHYS 321 | Intermediate Mechanics |
| PHYS 407 | Electromagnetic Theory |
| PHYS 424 | Introduction to Quantum Mechanics |
| PHYS 440 | Computations Physics |
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