



## General Curriculum in Mathematics or Concentrations (select one)

### GENERAL CURRICULUM IN MATHEMATICS

This is the pathway for students who do not wish to select a concentration.

CSC/CPE 101 Fund of Comp Sci I <i>or</i> CSC/CPE 235 Fund Comp Sci Scientists & Engr I	4
STAT 301 Stat I <i>or</i> STAT 325 Intro to Prob Mods	4
MATH 336 Combinatorial Mathematics	4
Tracks (two paired courses representing depth of study with a particular focus)	24
Choose <i>three</i> tracks from the following list, with at least one track from these first two listed: MATH 413 <i>and</i> MATH 414 MATH 406 <i>and</i> MATH 482	
MATH 304 <i>and</i> MATH 404 MATH 335 <i>and</i> MATH 435 MATH 344, <i>and</i> MATH 416 <i>or</i> MATH 418 MATH 350, <i>and</i> MATH 341 <i>or</i> MATH 344 MATH 408 <i>and</i> MATH 409 MATH 437 <i>and</i> MATH 453 MATH 440 <i>and</i> MATH 441 MATH 442 <i>and</i> MATH 443 MATH 451 <i>and</i> MATH 452	
Select 12 units from the following:	12
MATH 304, 335, 341, 344, 350, 404, 406, 408, 409, 413, 414, 416, 418, 419, 435, 436, 437, 440, 441, 442, 443, 451, 452, 453, 470, 482; CSC/CPE 102, 103, 236, 349; PHYS 132, 133, 211, 301, 302, 322, 323, 405, 408; STAT 301, 302, 325, 425, 426, 427	
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### APPLIED MATHEMATICS CONCENTRATION

CSC/CPE 101 Fund of Comp Sci I <i>or</i> CSC/CPE 235 Fund Comp Sci Scientists & Engr I	4
MATH 304 Vector Analysis	4
MATH 344 Linear Analysis II	4
MATH 350 <i>or</i> CSC/CPE 102 <i>or</i> CSC/CPE 236	4
MATH 413 Intro to Analysis II	4
MATH 451 Numerical Analysis I	4
STAT 301 Stat I <i>or</i> STAT 325 Intro to Prob Mods	4
Tracks (two paired courses representing depth of study with a particular focus)	16
Choose <i>two</i> tracks from the following: MATH 408 <i>and</i> MATH 409 MATH 416 <i>and</i> MATH 418 MATH 452 <i>and</i> MATH 453	
Advisor approved electives (form required) To be taken outside of the Mathematics Dept with significant applications to mathematics; at least one course at 300-level or above.	12
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### PURE MATHEMATICS CONCENTRATION

MATH 336 Combinatorial Mathematics	4
MATH 408 Complex Analysis I	4
MATH 413 Intro to Analysis II	4
MATH 440 Topology I	4
MATH 482 Abstract Algebra II	4
Select 12 units from the following:	12
MATH 406, 409, 414, 435, 441	
Select 8 units from the following:	8
CSC/CPE 101 <i>or</i> CSC/CPE 235 MATH 350 STAT 301 <i>or</i> STAT 325	
Select 12 units from the following:	12
MATH 304, 335, 341, 344, 350, 404, 406, 409, 414, 416, 418, 435, 436, 437, 441, 451, 452, 453, 470	
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### MATHEMATICS TEACHING CONCENTRATION

CSC/CPE 101 Fund of Comp Sci I <i>or</i> CSC/CPE 235 Fund Comp Sci Scientists & Engr I	4
SCM 300 Early Field Exp, Science/Math (CR/NC)	4
MATH 300 Technology in Mathematics Education	4
STAT 301 Statistics I	4
STAT 302 <i>or</i> STAT 325 <i>or</i> STAT 425	4
MATH 336 Combinatorial Mathematics	4
MATH 341 Theory of Numbers	4
MATH 419 Intro to the History of Mathematics	4
MATH 423 Advanced Mathematics for Teaching	4
MATH 442 Euclidean Geometry	4
MATH 443 Modern Geometries	4
MATH 482 Abstract Algebra II	4
Select 4 units from the following:	4
CSC/CPE 102, 236; MATH 304, 335, 344, 406, 408, 413, 416, 435, 437, 440, 451, 470; PHYS 132, 133, 302	
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