

New Math Major Effective Fall 2023

Beginning Fall 2023, we will be moving to a Core + Option model. Each math major takes all of the courses in the core, then completes one of the 4 options listed to earn their degree.

General option

| Course | Units |
|----------------------------------|--------------|
| CHEM 150, CS 211, or PHYS 202 | 4-5 |
| MATH 364 | 3 |
| MATH 430 | 3 |
| MATH 470 | 3 |
| MATH 490/505+ | 3 |
| MATH Electives | 12 |
| Sum | 28-29 |

Education option

| Course | Units |
|-----------------|-----------|
| EDUC 350 | 3 |
| EDUC 364 | 3 |
| EDUC 422 | 3 |
| MATH 314 | 2 |
| MATH 330 | 3 |
| MATH 410 | 3 |
| MATH 430 | 3 |
| MATH 442 or 444 | 3 |
| MATH 470 | 3 |
| MATH Electives | 6 |
| Sum | 32 |

Core

| Course | Units |
|------------|-----------|
| CS 111 | 4 |
| PHYS 201 | 4 |
| MATH 160 | 5 |
| MATH 162 | 4 |
| MATH 260 | 4 |
| MATH 264 | 3 |
| MATH 350 | 3 |
| MATH 378 | 3 |
| MATH 441 | 3 |
| Sum | 33 |

Algorithmic option

| Course | Units |
|------------------------|-----------|
| CS 211 | 4 |
| CS 311 | 3 |
| MATH 364 or 465 | 3 |
| MATH 422 or 424 | 3 |
| MATH 442, 443, or 444 | 3 |
| MATH 472 or 474 | 3 |
| MATH 480 or CS 480 | 3 |
| MATH 490, 495, or 505+ | 3 |
| MATH Electives | 6 |
| Sum | 31 |

Applied option

| Course | Units |
|-----------------------|--------------|
| MATH 362 | 3 |
| MATH 364 | 3 |
| MATH 430 | 3 |
| MATH 442 or 444 | 3 |
| Emphasis | 11-13 |
| Applied MATH Elective | 3 |
| MATH Elective | 3 |
| Sum | 29-31 |

Chem/Biol Emphasis: Choose from CHEM 150 + 150L, CHEM 160, CHEM 201 + 201L, BIOL 210, BIOL 211, BIOL 212, BIOL 215

Phys Emphasis: Choose from PHYS 202, PHYS 203, PHYS 270, PHYS 320, PHYS 321, PHYS 323, PHYS 324