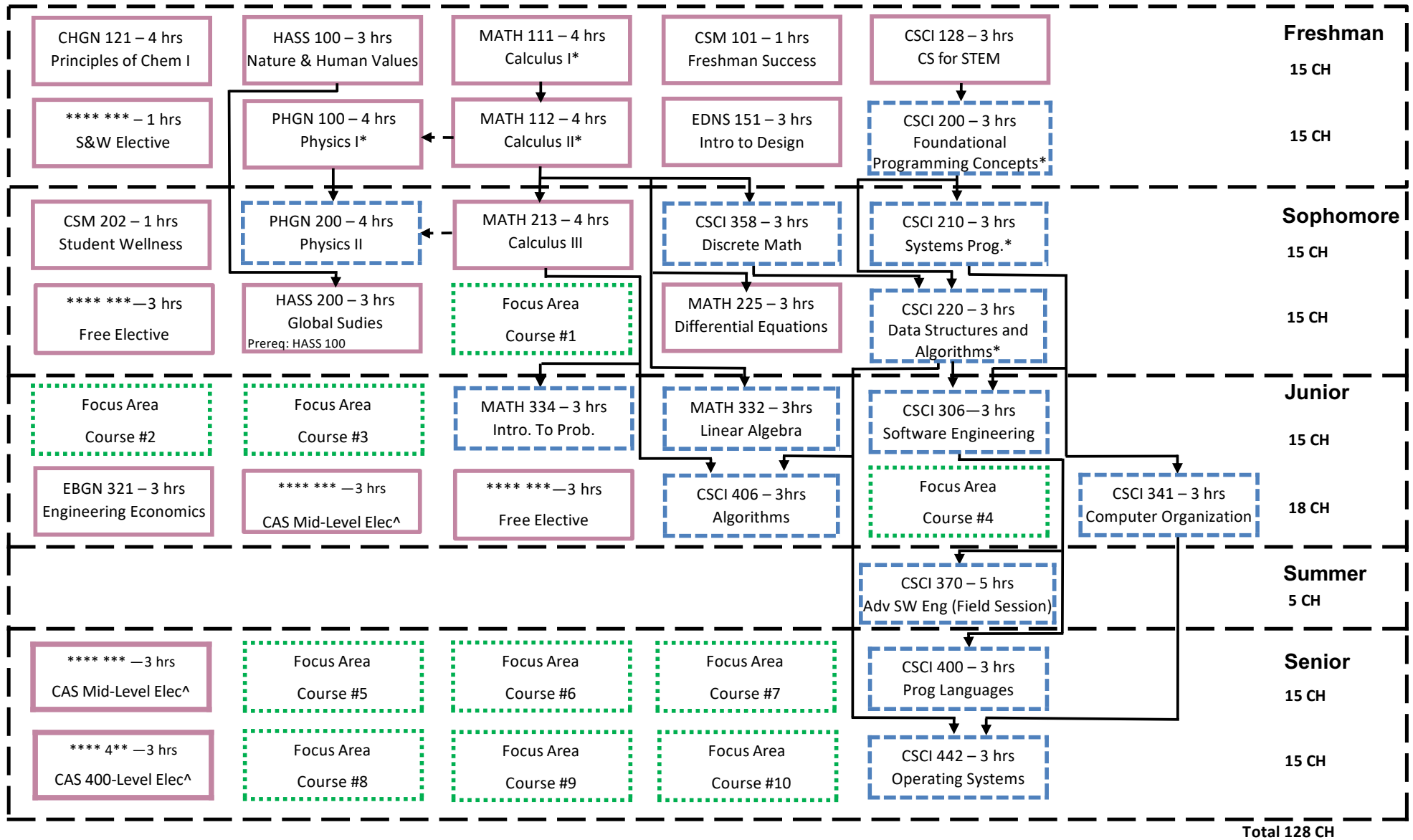


2023-2024 Computer Science Curriculum Flowchart



Mines Core
56 CH

CS Core
42 CH

Focus Area
30 CH

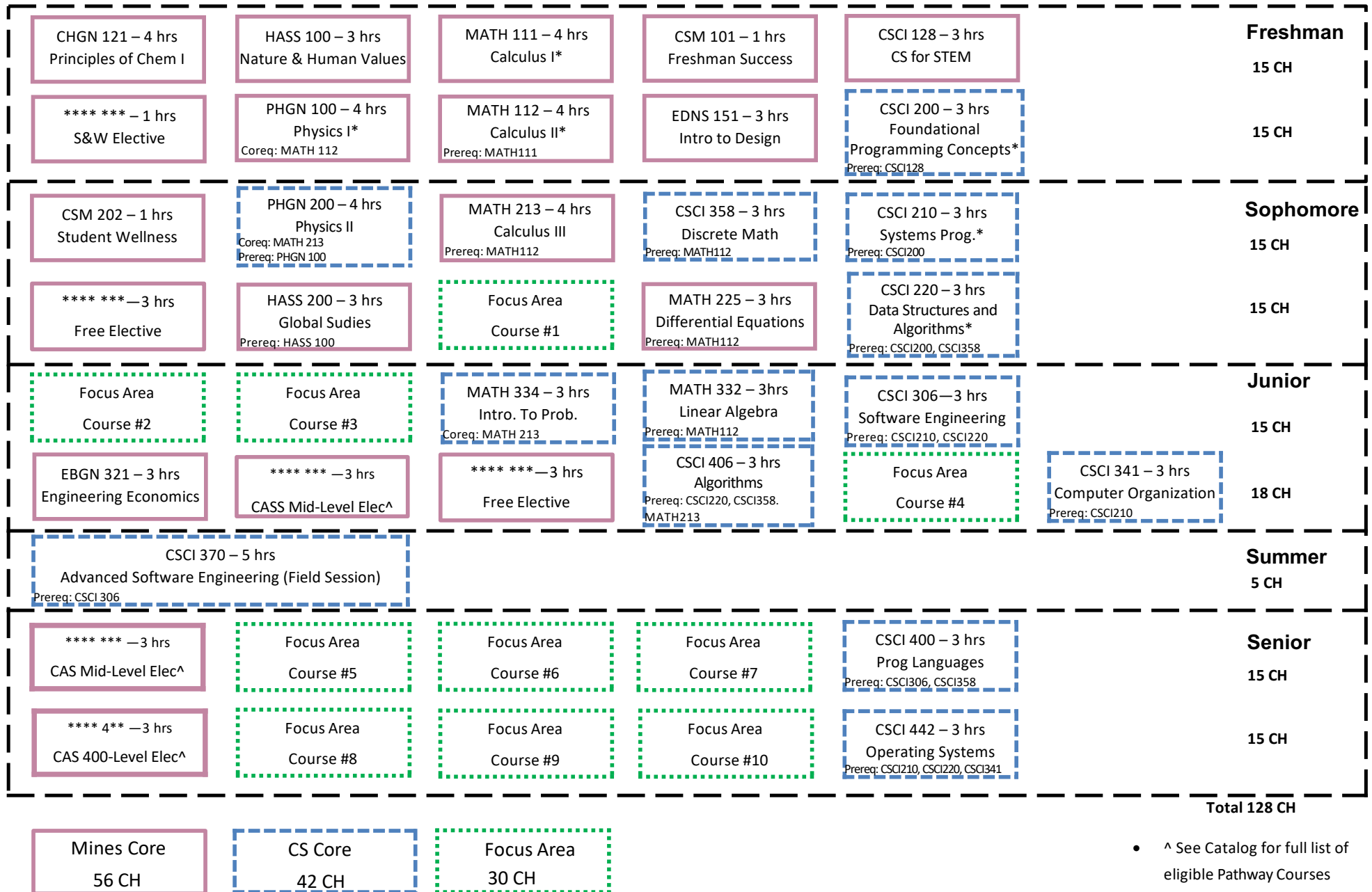
- Solid Line = Pre-Req
- Dashed Line = Co-Req
- ^ See Catalog for full list of eligible Pathway Courses
- * C- or higher is required

CS@Mines Focus Area Courses

| | Computer Science | CS + Business | CS + Computer Engineering | CS + Data Science | CS + Robotics and Intelligent Systems | CS + Space | CS + Research Honors |
|-------|-------------------------|---|--|--|---|--|---|
| 1 | Free Elective | CSCI 303 P: CSCI 128 | EENG 281#& P: PHGN 200 | CSCI 303 P: CSCI 128 | EENG 281#& P: PHGN 200 | EENG 281#& P: PHGN 200 | Free Elective |
| 2 | CSCI 403 P: CSCI 200 | CSCI 403 P: CSCI 200 | EENG 284# P: CSCI 200 C: EENG 281 | CSCI 403 P: CSCI 200 | Free Elective | CSCI 303 or 404 or 475 | CSCI 403 P: CSCI 200 |
| 3 | Free Elective | BS Elective# | EENG 383 P: EENG 281 & EENG 284 | MATH 201 P: MATH 111 | EENG 307 P: EENG 281 & MATH 225 | Free Elective | HASS 360 |
| 4 | CS Elective^ | BS Elective# | CS Elective^ | MATH 335 P: MATH 334 | CSCI 404 P: CSCI 220 & MATH 201 | MEGN 455 | CS Elective^ |
| 5 | CS Elective^ | BS Elective# | CSCI 475 P: CSCI 210 & CSCI 220 & CSCI 341 | MATH 324 P: MATH 201 | MEGN 441 P: CSCI 220 & EENG 281 | EENG 284# P: CSCI 200 C: EENG 281 | CSCI 480 P: CSCI 306 |
| 6 | CS Elective^ | CSCI 475 P: CSCI 220 & CSCI 274 & CSCI 341 | CSCI 471 P: CSCI 210 & CSCI 220 | CSCI 470 P: CSCI 128 & MATH 201 & MATH 332 | CSCI 437 or 473 | MEGN 458 | CSCI 5**% |
| 7 | Free Elective | CS Elective^ | CSCI 403 or 440 or 474 | MATH 432 or 436 or 437 or 438 or 439 | CSCI 470 or 534 | CSCI 423 or 440 or 471 | CS Elective^ |
| 8 | CS Elective^ | BS Elective# | CS Elective or EENG 4** | CSCI 404 or 423 or 440 or 474 or 475 | CSCI 432 or 436 | EENG 383 P: EENG 281 & EENG 284 | CSCI 480 P: CSCI 306 |
| 9 | CS Elective^ | CSCI 445 or 446 or 448 | Free Elective | CS Elective^ | CSCI 432 or 436 or 437 or 470 or 473 or 534 | MEGN 456 | CSCI 5**% |
| 10 | Free Elective | Free Elective | Free Elective (1.0 CH) | Free Elective | CS Elective^ | CS Elective^ | CS Elective^ |
| Notes | | # Four unique business electives must be chosen from EBGN 230, 320, 321, 345, 346, 360, 425, 460, or 485 | # PHGN 215 + PHGN 317 can be substituted with pre-approval & EENG 282 may be substituted for EENG 281 | | # PHGN 215 can be substituted with preapproval. & EENG 282 may be substituted. | # PHGN 215 + PHGN 317 can be substituted with pre-approval & EENG 282 may be substituted for EENG 281 | % CS Honors Elective may be any CSCI 500 level course approved by adviser |

^ CS Electives may be chosen from any CSCI 400-level course, any CSCI 500-level course (with approval), MATH 307, or EENG 383. EDNS 491 and EDNS 492, when taken together, can both be counted as a CS Elective. A course required for a focus area cannot also be counted for a CS Elective.

2023-2024 Computer Science Curriculum Flowchart



- ^ See Catalog for full list of eligible Pathway Courses
- * C– or higher is required

CS@Mines Focus Area Courses

| | Computer Science | CS + Business | CS + Computer Engineering | CS + Data Science | CS + Robotics and Intelligent Systems | CS + Space | CS + Research Honors |
|-------|-------------------------|---|--|--|---|--|---|
| 1 | Free Elective | CSCI 303 P: CSCI 128 | EENG 281#& P: PHGN 200 | CSCI 303 P: CSCI 128 | EENG 281#& P: PHGN 200 | EENG 281#& P: PHGN 200 | Free Elective |
| 2 | CSCI 403 P: CSCI 200 | CSCI 403 P: CSCI 200 | EENG 284# P: CSCI 200 C: EENG 281 | CSCI 403 P: CSCI 200 | Free Elective | CSCI 303 or 404 or 475 | CSCI 403 P: CSCI 200 |
| 3 | Free Elective | BS Elective# | EENG 383 P: EENG 281 & EENG 284 | MATH 201 P: MATH 111 | EENG 307 P: EENG 281 & MATH 225 | Free Elective | HASS 360 |
| 4 | CS Elective^ | BS Elective# | CS Elective^ | MATH 335 P: MATH 334 | CSCI 404 P: CSCI 200 & MATH 201 | MEGN 455 | CS Elective^ |
| 5 | CS Elective^ | BS Elective# | CSCI 475 P: CSCI 210 & CSCI 220 & CSCI 341 | MATH 324 P: MATH 201 | MEGN 441 P: CSCI 220 & EENG 281 | EENG 284# P: CSCI 200 C: EENG 281 | CSCI 480 P: CSCI 306 |
| 6 | CS Elective^ | CSCI 475 P: CSCI 220 & CSCI 274 & CSCI 341 | CSCI 471 P: CSCI 210 & CSCI 220 | CSCI 470 P: CSCI 128 & MATH 201 & MATH 332 | CSCI 437 or 473 | MEGN 458 | CSCI 5**% |
| 7 | Free Elective | CS Elective^ | CSCI 403 or 440 or 474 | MATH 432 or 436 or 437 or 438 or 439 | CSCI 470 or 534 | CSCI 423 or 440 or 471 | CS Elective^ |
| 8 | CS Elective^ | BS Elective# | CS Elective or EENG 4** | CSCI 404 or 423 or 440 or 474 or 475 | CSCI 432 or 436 | EENG 383 P: EENG 281 & EENG 284 | CSCI 480 P: CSCI 306 |
| 9 | CS Elective^ | CSCI 445 or 446 or 448 | Free Elective | CS Elective^ | CSCI 432 or 436 or 437 or 470 or 473 or 534 | MEGN 456 | CSCI 5**% |
| 10 | Free Elective | Free Elective | Free Elective (1.0 CH) | Free Elective | CS Elective^ | CS Elective^ | CS Elective^ |
| Notes | | # Four unique business electives must be chosen from EBGN 230, 320, 321, 345, 346, 360, 425, 460, or 485 | # PHGN 215 + PHGN 317 can be substituted with pre-approval & EENG 282 may be substituted for EENG 281 | | # PHGN 215 can be substituted with preapproval. & EENG 282 may be substituted. | # PHGN 215 + PHGN 317 can be substituted with pre-approval & EENG 282 may be substituted for EENG 281 | % CS Honors Elective may be any CSCI 500 level course approved by adviser |

^ CS Electives may be chosen from any CSCI 400-level course, any CSCI 500-level course (with approval), MATH 307, or EENG 383. EDNS 491 and EDNS 492, when taken together, can both be counted as a CS Elective. A course required for a focus area cannot also be counted for a CS Elective.