B.S. in Computer Science – Advising Check Sheet

Requirement Term: 4228

Student Name: Charles Moye **ID#** **Date:** 3/11/25

Program GPA: Major GPA:

Both GPAs must be minimum of 2.000 for graduation.

Requirement	Enrolled/Completed	Needed	Required
Total Program Hours	88.5	31.5	120
300+ Level	13	17	30
CSCI-B,C,H,P,Y 200+	11.5	33.5	45
CSCI-B,C,H,P,Y 300+	0	26	26
CSCI at IUB	8.5	3.5	12

Minor:

Minor:

Minor:

Common Ground - IUB General Education Requirements

- [x] IUB GenEd English Composition credit
- [x] IUB GenEd Mathematical Modeling credit (MATH-M 211)
- [x] IUB GenEd A&H credit (6cr) still need:
- [x] IUB GenEd S&H credit (6cr) still need:
- [x] IUB GenEd N&M credit - Natural Science
- [x] IUB GenEd World Language, Culture, or Overseas Study

Luddy Additional Requirements

- [ ] Apply to Graduate
- [x] Luddy-Approved Diversity in the US
- [x] IUB GenEd English Composition credit, grade of C or higher
- [ ] Luddy-Approved Intensive Writing
- [ ] Luddy-Approved Natural Science (12cr) still need: 12 cr

Major Grade of C- or above required for all major and minor courses.

Core Courses (5 required)

- [ ] CSCI C200
- [ ] CSCI C212
- [ ] CSCI C241
- [ ] CSCI C343
- [ ] CSCI-Y 395 Required? Yes

Mathematics MATH-M 211

- [x] MATH-M 211

Mathematical Courses; 2 required

- [ ] MATH-M 212
- [ ] MATH-M 301

Specialization: Security

- [ ] CSCI-C 231
- [x] CSCI-C 291 - Spring '25
- [ ] CSCI-C 335
- [ ] CSCI-B 430
- [ ] CSCI-B 433
- [ ] CSCI-P 436
- [ ] CSCI-P 438

Spring '25:
(3) COLL-P 155
(1.5) CSCI-A 290
(3) CSCI-C 291
(3) INTL-I 305
(3) SGIS-S 401

13.5 cr

Summer '25:
(4) CSCI-C 200
(4) MATH-M 212 (Ivy Tech)

Fall '25:
(4) CSCI-C 212
(3) CSCI-C 241
(3) GenEd
(3) GenEd

13 cr

Spring '26:
(4) CSCI-C 335
(4) CSCI-C 343
(1) CSCI-Y 395
(3) MATH-M 365
(3) GenEd

15 cr

Fall '26:
(3) COGS-Q 370 (IW/NS)
(3) CSCI-B 430
(3) CSCI-C 231
(4) CSCI-P 438

13 cr

Spring '27:
(3) CSCI-B 433
(4) CSCI-P 436
(3) MATH-M 301

10 cr

Fall '27:
(3) CSCI-B 430
(4) CSCI-P 438
(3) MATH-M 365

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[x] **means Completed or In Progress**

MAJOR REQUIREMENTS

Students must complete a minimum of 45 credit hours of CSCI-B, C, P, H or Y, including the core, an area of specialization, and CS electives. At least 26 of the 45 hours must be at the 300 level or above. Minimum grade of C- in all CS/Math/Specialization courses.

Computer Science Core (16 credits)

□ CSCI-C/H211 or CSCI-C/H200
□ CSCI-C/H212 (P: C211 or C200)
□ CSCI-C/H241 (P: C211, R: M211)
□ CSCI-C/H343 (P: C212, P: C241)
□ CSCI-Y 395

CS Electives (to reach 45 CSCI hours)

□ CSCI-A 290 (at most 3 hours)
□ CSCI B, C, P, or H 200 level or above
□ CSCI-Y 390, Y391, Y399, Y499 (at most 6 hours)
□ CSCI-H 498 Honors Seminar (at most 1 hour)
□ MATH-M 471, MATH-M 472
□ INFO-I 101 or ENGR-E 101 (if taken before or with CSCI-C 212)
□ INFO-I 494/INFO-I 495 (need permission)

Mathematics (10-12 credits)

□ MATH-M 211 Calculus I
□ **Two additional mathematical science courses from the following:** MATH-M 212 (recommended), MATH-M 300 or higher, MATH-T 336, MATH-T 403, PHIL-P 251, STAT-S 350, STAT-S 352

LUDDY-APPROVED NATURAL SCIENCE COURSES

Approved Departments:

- AST
- BIOL
- BIOT
- CHEM
- EAS
- MSCI
- PHYS

Approved Course Exceptions:

- COGS-Q 370
- MUS-A 111
- PSY-P 155
- PSY-P 211
- PSY-P 300 or higher
- SPEA-E 272
- VSCI-V 250

Specialization - Must complete ONE

Artificial Intelligence *(STAT course must be in addition to the upper-level math requirement for the major): 15-16 credits*

□ Two of: CSCI-B 351, CSCI-B 365, or CSCI-B 455
□ Two of (if not used above): CSCI-B 351, CSCI-B 355, CSCI-B 363, CSCI-B 365, CSCI-B 455, CSCI-B 456, CSCI-B 457, or STAT-S 350
□ One of: CSCI-B 401, CSCI-B 403 (P:M212), CSCI-B 405, CSCI-P 415 (P:C311)

Data Science *(STAT course must be in addition to the upper-level math requirement for the major): 15-16 credits*

□ All: CSCI-B 461
□ One of: CSCI-B 403 (P:M212) or CSCI-B 405
□ One of: CSCI-B 365 or CSCI-B 455
□ One of (if not used above): CSCI-B 351, CSCI-B 365, CSCI-B 455, CSCI-C 311, CSCI-P 434, or CSCI-P 462
□ One of: CSCI-B 401, STAT-S 350, or CSCI-P 415 (P:C311)

Foundations *(MATH courses must be in addition to the upper-level math requirement for the major): 15-16 credits*

□ All: CSCI-B 401 and CSCI-B 403 (P:M212)
□ One of: CSCI-P 415 or CSCI-B 461
□ Two of: CSCI-C 311, CSCI-B 455, CSCI-B 504, MATH-M 453, MATH-M 301 or M303, MATH-M 365, or MATH-M 471 (P: multiple)

Game Development *(MSCH courses do not count as CSCI major hours): 9 MSCH credits, 21-22 CSCI major credits*

□ All: MSCH-C 210, MSCH-G 300, and MSCH-G 310
□ All: CSCI-C 292, CSCI-B 453, CSCI-C 460, and CSCI-C 470
□ One of: CSCI-C 290 (topic: Games and Puzzles) or CSCI-B 351
□ One of: CSCI-B 481, CSCI-C 323, CSCI-P 465, or CSCI-P 438
□ One of: CSCI-B 401, CSCI-B 403 (P:M212), CSCI-B 405, or CSCI-B 461

Programming Languages: *17-19 credits*

□ All: CSCI-C 311 and CSCI-P 423
□ Two of: CSCI-C 335, CSCI-P 436, CSCI-B 441, CSCI-B 461, CSCI-B 490 (approved topic), or CSCI-P 424
□ One of: CSCI-B 401, CSCI-B 403 (P:M212), CSCI-B 405, or CSCI-P 415 (P:C311)

Security: *14 MATH credits, 22.5 CSCI major credits*

□ All: MATH-M 211, MATH-M 212, MATH-M 301, and MATH-M 365 (do not count as CSCI major credits)
□ All: CSCI-C 231, CSCI-C 291, CSCI-C 335, CSCI-B 430, CSCI-B 433, CSCI-P 436, and CSCI-P 438

Software Engineering: *19-22 credits*

□ All: CSCI-B 461 and CSCI-P 465
□ One of: CSCI-C 322 or CSCI-P 466
□ One of: CSCI-C 323 or CSCI-C 335
□ One of: CSCI-B 403 (P:M212), CSCI-B 405, CSCI-P 423 (P:C311), CSCI-P 415 (P:C311), or CSCI-P 436 (P:C335)
□ One additional CSCI-P course not used above

Systems: *15.5-16.5 credits*

□ All: CSCI-C 291 and CSCI-C 335
□ One of: CSCI-P 436, CSCI-P 438, CSCI-P 442, or CSCI-P 545
□ One of: CSCI-P 434, CSCI-P 436, CSCI-P 438, CSCI-B 441, CSCI-P 442, CSCI-B 443, CSCI-B 490 (approved topic), or CSCI-P 545
□ One of: CSCI-B 401, CSCI-B 403 (P:M212), CSCI-B 405, or CSCI-P 415 (P:C311)