**Phase 1**
Classes to be completed in your first or second semester in the major

- CS 121
- STATS 240*
- INFO 101 F
- INFO 150 F

**Phase 2**
Classes likely to come after Phase 1 courses

- CS 186
- INFO 248 S
- INFO 203 S
- CS 305**

**Phase 3**
More advanced courses to be completed near the end of your program

- CS 326
- CS 345 F
- CS 325 F
- DS Elective ***

**Electives**
- 300 level or above
- No more than 4 may be Isenberg courses
- No more than 3 may be counted towards a separate major/minor

**Elective Options**
- OIM 350: Business Intelligence and Analytics
- OIM 454: Advanced Business Analytics
- MARKET 413: Social Media and Marketing Analytics
- MARKET 455: Internet Marketing
- PUBHLTH 460: Telling Stories with Data (F)
- JOURNAL 397DJ: Data Driven Storytelling
- COMPSCI 328: Mobile Health Sensing & Monitoring (F)
- STAT 501: Methods of Applied Statistics
- STAT 515: Statistics I
- English 391C: Web Design
- See back for more Elective Options

* OIM 240, PSYCH 240, SOCIOL 212 or RES-CON 212 can be taken in place of this requirement

** An equivalent course can be taken in place of this requirement

*** Pick one of the following: STAT 501, PUBHLTH 460, JOURNAL 397DJ, OIM 350
Informatics – Data Science Track

**Prerequisite or Other Additional Requirements:**
An overall GPA 2.0 is required for courses that count towards the major
No class counted for the major may be taken pass/fail
Seminar courses (x91) and independent studies (x96) at the 300-level (or above) are reviewed for elective credit via the independent study approval process
Informatics majors wanting to add another major may not seek both majors within CICS
Informatics majors must complete a total of 60 credits for the colleges of CNS and CICS

**Junior-Year Writing Requirement:**
CS 305 or other CICS approved, university-certified JYW course required to satisfy the JYW requirement

**Residency Requirement:**
Two of the four concentration courses and four of the six electives that satisfy the Informatics major requirements must be taken at UMass Amherst

**Notes:**
R2 Math requirement satisfied by CS 121
Integrative Experience Requirement satisfied by CS 326

* Must be approved by advisor

**Elective Options (continued)**
SCH-MGMT 397B: Internet Technology for e-Business
MARKET 301: Fundamentals of Marketing
STAT 516: Statistics II
SUSTCOMM 297L: Visual Communication Design Skills and Principles
English 379, 380, 391C, 381 or 382: Courses in professional writing
PUBHLTH course 300-level or above*
OIM course 300-level or above*
STAT course 500-level or above*
College of SBS 300-level or above*
Suggest your own (Epidemiology; genetics; economics; sociology..etc.)