

Phase 1

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

Phase 2

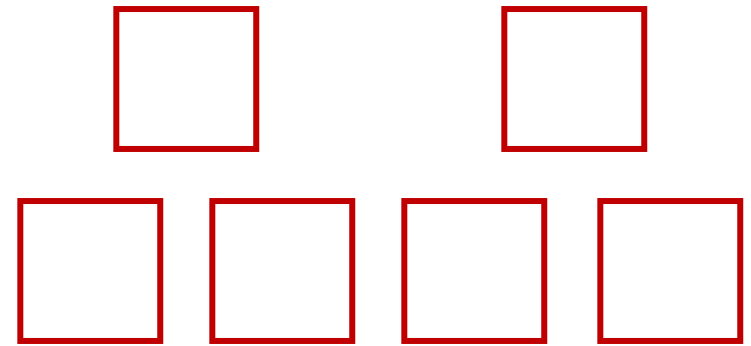
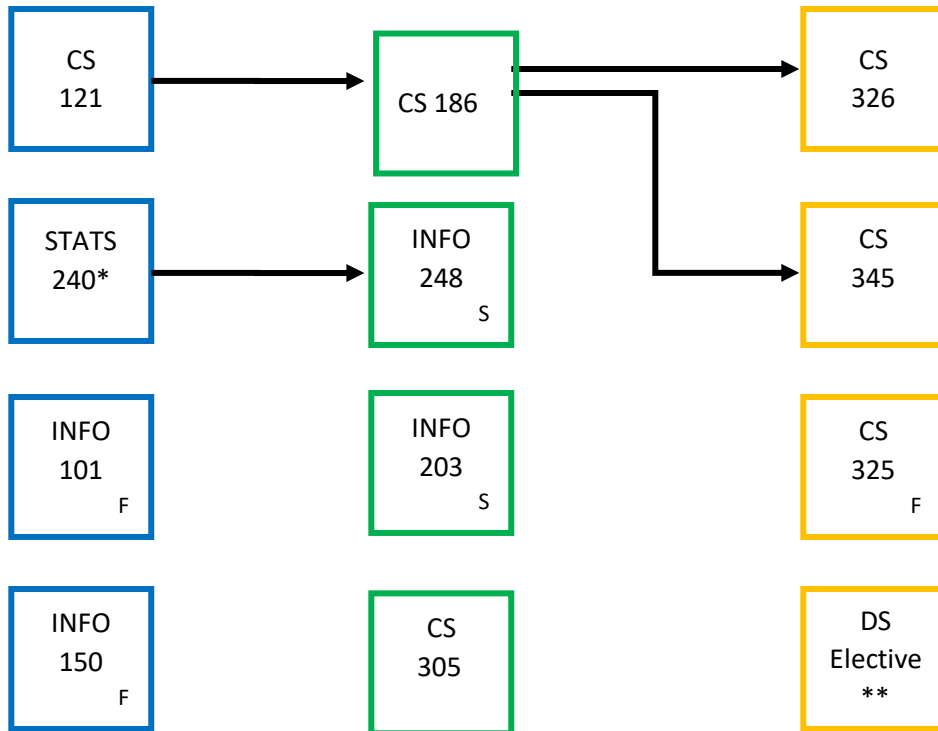
Classes likely to come after Phase 1 courses

Phase 3

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

Electives

- 300 level or above
- Proposed electives require IPD approval



Elective Options

- OIM 350: Business Intelligence and Analytics
- OIM 454: Advanced Business Analytics
- BIO 379: Genomics and Bioinformatics
- ECON 309: Game Theory
- 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
- English 391C: Web Design
- See back for more Elective Options

* OIM 240, PSYCH 240, SOCIOL 212 or RES-ECON 212 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 science credits

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

Elective Options (continued)

BIO 383: Gene and Genome Analysis

COMPSCI 365: Digital Forensics (requires CS 230)

ECON 452: Econometrics

MARKETING 497T: Special Topics- Text Mining & Analytics for Marketing and Business Practice (requires Marketing 301)

STAT 515: Statistics I

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.)

* Must be approved by advisor