Requirements

World Language

1. Phil 343 - 3 Cr

Social Sciences - 9 Cr

Select credits from the LAS

approved list on website and

3 cr. - U.S. Diversity

3 cr. - International Perspective.

approved list on website and

Science Sequence Options

CHEM 177/178 + Labs OR

Com S 300/400 - 15 credits

Com S 319, 336, 362, 363

400 level options (6 credits)

Com S 407, 409, 410, 412, 413, 415,

417, 418, 421, 424, 425, 426, 430, 433,

435, 437, 440, 441, 444, 453, 454, 455,

461, 472, 474, 476, 477, Math 481, 486,

487, CprE/SE 416, Cpr E 431, Cpr E 458,

(Min of 6 credits at 400 level)

BIOL 211/212 + Labs

BIOL 255/256 + Labs

GEOL 100/102 + Labs

PHYS 221/ 222 + Labs

PHYS 241/ 242 + Labs

300 level options

Cpr E 489

Select credits from the University

OR

OR

OR

degree audit.

degree audit.

degree audit.

- 1 year at college level or

Arts and Humanities - 12 Cr.

2. Select additional 9 credits from

LAS approved list on website and

- 3 years at high school

THIS FLOW CHART IS ONLY A GUIDE. PLEASE REFER TO YOUR ADVISOR FOR QUESTIONS.



Class based on ALEKS Math Assessment MATH 140 - 3 cr, College Algebra MATH 143 - 4 cr, Calculus Prep

Com S 127

Introduction to programming for problems solving (Elective Course - 4 Cr)



MATH 165 Calculus I

4 Cr C- or Better

COM S 101 Orientation

R Cr

COM S 227

Introduction to Object- Oriented Programming, JAVA (Pre-Req placement into Math 143 or higher)

4 Cr | C- or Better

COM S 228

Social Science

3 Cr

ENGL 150

(If English ACT 24 or higher, placement into English 250. 3 Cr

FNGL 250

(Pre Reg ENGL 150 or

Lib 160 (orientation)



MATH 166 Calculus II

4 Cr C- or Better

COM S 203 Careers in Computer Science

R Cr

ComS 203 is a required course to graduate in Computer Science.

Introduction to Data Structures, JAVA (Pre- Rea C- in 227. CR/E Math 165) 3 Cr C- or Better

Arts & **Humanities**

3 Cr

exempt from ENGL150) C or Better



COM S 230

Discrete Computational Structures (Pre-Req C- in Com S 227 and Math 165; Engl 150) 3 cr C- or Better

COM S 300/400

(Check Pre-Rea requirements) 300/400 level course from approved options. 3 Cr C- or Better##

COM S 309

Software Development Practices. (Pre-Req C- in ComS 228 and Math 165) 3 Cr/ C- or Better##

Social Science

3 Cr**

Elective or **World Language** 101

3/4 Cr *



MATH

Math option, (Choose one) 207, 265, 266, 267, 304, 314. 317

3/4 Cr

COM S 311

Algorithms (Pre-Req C- in Com S 228; Math 166, Com S 230 or CprE 310, Engl 150) 3 Cr/ C- or Better##

COM S 321

Introduction to Computer Architecture & Machine level programming. (Pre-Req C- in Com S 228 and Math 165; ComS 230 or CprE 281, Engl 250) 3 Cr | C- or Better##

Arts &

Humanities

3 Cr

Elective or **World Language** 102

3/4 Cr *



Select a Science Sequence from the list on the

right.

8-10 Crs total

COM S 331

Theory of Computing (Pre-Req C- in ComS 228. Math 166 and in ComS 230 or CprE 310; Engl 250) 3 Cr/ C- or Better##

COM S 327

Advanced Prog.

Techniques, C++ (Pre-Req C- in Com S 228 and Math 165) 3 Cr

C- or Better##

SpCm 212

Public Speaking

3 Cr

Elective*

STATISTICS

Option (choose one) 305, 330, 341

requirements) from approved options.

COM S 300/400 (Check Pre-Req

300/400 level course 3 Cr/C- or Better##

ENGL 302/305/ 309/314

3 Cr

Arts/Hum **PHIL 343**

Philosophy of Technology

3 Cr ** Only offered Spring Term

Com S 414 is not an elective option



COMS 342

Principles of Programming Languages. (Pre-Reg C- in 228 and Math 165; Com S 230 or CprE 310) 3Cr/C- or Better##

COMS 400

(Check Pre-Reg requirements) 400 level course from Approved options 3 Cr

COM S 300/400

(Check Pre-Rea requirements) 300/400 level course from approved options. C- or Better##

Social Science

Can be combined with U.S. Diversity or International Perspective Requirement.

Elective*

3Cr**

Can be combined with U.S. Diversity of International Perspective Requirement.

3Cr**

Elective*

ComS 402 Senior Project

(Pre-Req ComS 309, 311, 331, Engl 250, SpCm 212. Co-Req ComS 342 & 352) 3 Cr/C-or Better##

COMS 352

Engl 250) C- or Better##

Introduction to

operating systems (Pre-Reg 321, 327,

COMS 400

(Check Pre-Req requirements) 400 level course from approved options

C- or Better##

3 Cr/ C- or Better##

Arts/Hum

* Elective courses: Any course that is not remedial (can use minor or second major courses) - only need to meet

** U.S. Diversity, International Perspective, Arts & Humanities and Social Sciences approved course lists can be found on your degree audit, click on link for that particular requirement on your degree audit.

8 credits from Computer Science must be at the 300+ level courses with a grade of "C" or

GRADUATION REQUIREMENT

better from ISU

residence at ISU

Transfer Students must have at least 15.0 crs at 300+ level or above in COM S courses while in

Last 32 Credits must be taken at Iowa State University.

Adviser can waive 6 of the last 32 credits taken at Iowa State.