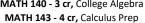
THIS FLOW CHART IS ONLY A GUIDE. PLEASE REFER TO YOUR ADVISOR FOR QUESTIONS.



Class based on ALEKS Math Assessment MATH 140 - 3 cr, College Algebra





MATH 165 Calculus I

4 Cr C- or Better

COM S 101 Orientation

R Cr

Com S 127 Introduction to Computer Programming- Python 4 Cr

Social Science

3 Cr

Arts &

Humanities

3 Cr

ENGL 150

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

FNGL 250

(Pre-Req ENGL 150 or exempt from ENGL150) 3 Cr C or Better

Lib 160 (orientation)



MATH 166 Calculus II 4 Cr

C- or Better

Select a

Science

Sequence

from the

list on the

right.

COM S 227

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

4 Cr | C- or Better

COM S 228

Intro to Data Structures JAVA (Pre-Req C- in 227 CR/E Math 165)

> 3 Cr C- or Better

Social Science

3 Cr**

Elective or **World Language** 101

3/4 Cr *



8-10 Crs total

C- or Better **COM S 311**

COM S 230

Discrete

Computational

Structures

(Pre-Req C- in Com S 227

and Math 165; Engl 150).

3 cr

Algorithms (Pre-Reg 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-Reg C- in Com S 228 and Math 165; ComS 230 or CprE 281, Engl 250)

3 Cr C- or Better##

COMS 300/400

(Check Pre-Req requirements) Select course from approved options 3Cr

C- or Better##

Elective or World Language 102

3/4 Cr *



COM S 300/400

Check Preregs Select course from approved options. 3 Cr

C- or Better##

COM S 309

Practices. (Pre-Req C- in ComS 228 and Math 165)

Software Development

3 Cr/ C- or Better##

MATH Math option.

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

3/4 Cr

SpCm 212

Public Speaking

3 Cr

Arts & **Humanities**

3 Cr



STATISTICS Option

(Choose one) 305,330,341 3 Cr

COM S 331

Theory of Computing (Pre-Rea 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/C++ (Pre-Reg C- in Com S 228 and Math 165) 3 Cr

COMS 400

C- or Better##

ENGL 302/305/ 309/314

3 Cr/C or Better

Arts/Hum **PHIL 343**

Philosophy of Technology

3 Cr **

Elective*

Requirements

World Language

- 1 year at college level or
- 3 years at high school

Arts and Humanities - 12 Cr.

- 1. Phil 343 3 Cr
- 2. Select additional 9 credits from LAS approved list on website and degree audit.

Social Sciences - 9 Cr

Select credits from the LAS approved list on website and degree audit.

> 3 cr. - U.S. Diversity 3 cr. - International

Perspective. Select credits from the University approved list on website and

Science Sequence Options

degree audit.

BIOL 211 & 212 + Labs BIOL 255 & 256 + Labs OR CHEM 177 & 178 + Labs OR GEOL 100 & 102 + Labs OR

PHYS 221 & 232 and Lab OR PHYS 241 & 242 + Labs

Com S 300/400 - 15 credits (Min of 6 credits at 400 level)

300 level options

458, Cpr E 489

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, 453, 454, 455, 461, 472, 474, 476, 477, Math 481, 486, 487, Cpr E 416, Crp E 430, Cpr E 431, Cpr E

Com S 414 is not an elective option



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

COMS 342

3Cr/C- or Better##

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

Introduction to operating systems (Pre-Reg 321, 327, Engl 250)

C- or Better##

COM S 300/400

Check Prereqs

Select course

from approved

options. 3 Cr

C- or Better##

C- or Better##

COMS 400

(Check Pre-Rea requirements) 400 Level course from Approved options 3 Cr

C- or Better##

Level course from Approved options

(Check Pre-Req Can be combined with requirements) 400 U.S. Diversity or International Perspective Requirement. 3Cr**

Social Science

Arts/Hum Can be combined with U.S. Diversity of International Perspective Requirement. 3Cr**

Elective*

- * 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.

GRADUATION REQUIREMENT

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

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

Last 32 Credits must be taken at Iowa State University.

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