Sciences found the 120 credit hour total and the minimum of 45 credits at the 300 level or higher. **U.S. Diversity, International Perspective, Arts & Humanities and Social Sciences approved course lists can be found in the Academic Progress Report and University/LAS approved lists on our website.

**This flow chart is only a guide. Please refer to your advisor for questions.**

### ALEKS Math Placement
- 39 – Math 1400 (3 cr) College Algebra
- 51 – Math 1430 (4 cr) Calculus Prep
- 76 – Math 1650 (4 cr) Calculus I

### Curriculum Requirements
- **World Language**
  - 1 year at college level or
  - 3 years at high school
- **Arts and Humanities** – 12 Cr.
- **Social Sciences** – 9 Cr.
- **Natural Science** – 9 Cr.
- **U.S. Diversity** – 3 Cr.
- **International Perspective** – 3 Cr.

### COMS Elective Options:
- 5- 3000/4000 level courses chosen from list (a) and (b) – including 2 from list (a) and a 400 level option
  - **List (a)** – Com S 3210, 3270, 3420, 3520, 3620, 3630, 4090, 4100, 4120, 4130, 4150, 4170, 4400, 4410, 4540, 4870, 4880
  - **List (b)** – Com S 3310*, 3360, 4180, 4210, 4330, 4350, 4370, 4550, 4720, 4740, 4760, 4770 *Com S 331 can only be used as a math elective OR a Com S elective- not both.

### Graduation Requirements
- 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 cr at 300+ level or above in COMS 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.

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**Natural Science**
- **4 Cr**

**COMS 3000/4000**
- Check Pre-Qqs. Select course from approved options
- **3 Cr**

**COMS 3090**
- Software Development Practices
- (Pre-Req C- in Com S 228 and Math 166, Com S 300 or Cpr E 185/310, Cpr E 285)
- **3 Cr or Better**

**ENGL 3020/3050/3090/3140**
- **3 Cr or Better**

**COMS 3110**
- Algorithms
- (Pre-Req C- in Com S 227 and Math 165, Cpr E 185/310, Cpr E 285, Engl 150)
- **3 Cr or Better**

**COMS 2280**
- Intro to Data Structures JAVA
- (Pre-Req C- in Cpr E 185, Math 165)
- **3 Cr or Better**

**Elective**
- **2 Cr**

**SP CM 2120**
- Public Speaking
- **3 Cr**

**COMS Elective Options:**
- Social Science
- **3 Cr**

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