

# Degree Requirements for Bachelor of Science in Computer Science

2009-2011 Catalog

*This curriculum is accredited by the Computing Sciences Accreditation Board*

Catalog:	2001-2003	2003-2005	2005-2007	2007-2009	2009-2011
Graduation deadline:	August 2007	August 2009	August 2011	August 2013	August 2015

English 104, 105 (6 Cr.) minimum grade in each English course is C-

Library 160 (.5 Cr)

U.S. Diversity (3 Cr)

International Perspectives (3 Cr)

Foreign Language

1 year at the college level, or 3 years High School

### Arts and Humanities (Group I) 12 Cr\*\*

(1) Phil 343

(2) Select additional credits from LAS approved list. \*

### Communication (Group II) 6 Cr\*\*

(1) Sp Cm 212

(2) One of Engl 302, 305, 309, or 314

Minimum grade required C-

### Mathematics (Group III-A) 14 Cr\*\*

(1) Math 165

(2) Math 166

(3) One Math course from 265, 266, 304, 307, 314, or 317

(4) One Stat course from 105, 231, 305, 330, 333, or 341

### Natural Sciences (Group III-B) 13 Cr

(1) Physics 221 and 222

(2) Select one additional course from ComS approved list. \*

### Social Sciences (Group IV) 9 Cr\*\*

Select credits form the LAS approved list. \*

At least two different departments must be represented.

\*Lists are available from your advisor and are printed in the Com S 101 Book, or on the web at:

<http://www.cs.iastate.edu/ugrad-info/catalog2.html>

\*\*Courses and the number of credits required within these groups are made from a combination of those determined by the College of Liberal Arts and Science and those the minimum number of courses and the minimum number of credits started in each group must be completed.

Other majors within the College of Liberal Arts and Sciences may require that the Group Requirement be satisfied in different ways.

Students must select at least 1 course from each of two approved lists, one involving international perspectives, and one with diversity within the US. These courses can be chosen from social science, arts and humanities or general electives. See your advisor for copies of the approved lists.

# Based on requirements stated in 2009-2011 Catalog.

### Major in Computer Science 44 Cr #

#### **Course**

Com S 101

Com S 227

Com S 228

CPR E 281

#### **Prerequisite**

*Major in computer Science*

*C- or better in 227 and credit of enrollment in Math 165*

*Sophomore Classification*

***Before taking the next course in Computer Science, a C- or better is required in all Computer Science courses listed as a prerequisite for that course.***

No classes below the line can be taken until all the Com Sci classes above the line are completed.

#### **Course**

Com S 203

Com S 229

Com S 321

Com S 330

Com S 309

Com S 362

Com S 363

Com S 311

Com S 331

Com S 342

Com S 352

#### **Prerequisite**

*Major in computer Science*

*228 and credit or enrollment in Math 166*

*228 & CPR E 210, Engl 104*

*228 & Math 166, Engl 104*

*229, Engl 104*

*229, Engl 104*

*229, Engl 104*

**Need either 362 OR 363**

*330 or CprE 310*

*330 or CprE 310*

*321, (330 or CprE 310) & (309 or 362 or 363)*

*321 & (362 or 363)*

Select 2 additional courses, including at least one from Group 2 and an additional course from Group 1, 2 or 3.

1) Com S 411, 418, 421, 426, 440, 454, 486, 477

2) Com S 401, 409, 417, 425, 430, 461, 472, 474

3) Com S (Math) 421, (Math) 471, (Math) 481, (CprE 484 or 485 or 489), or ME 557

### Minor or Second Major or Degree

See Advisor-these options could increase the number of courses and credits needed to graduate.

Electives - the total number varies. Some courses can be counted as electives **only**. Courses that are taken after completing the minimum requirements stated for each group count as electives. This includes those taken for the Computer Science major. Course that do not fall within the groups required by the College of Liberal Arts and Sciences, including courses taken to satisfy the prerequisite requirements of courses within the groups, can also count only as electives.

A minimum of 120.0 credits with an overall GPA of 2.0 are required for graduation. Beginning with the 1993-1995 Catalog, all graduates within the College of Liberal Arts and Sciences must also have a 2.0 GPA in the courses within their major department, as shown on their Degree Audit

A minimum of 45 credits numbered 300 or above is required for graduation.