

## BS in Computer Science (440)

Catalog Year  
2013 - 2014

**General Information:**

Academic Advising has provided a **recommended graduation plan** for every major we offer.

- This plan is built to meet the University’s minimum credit requirement (120 credits for a bachelor’s degree and 60 for an associate) in 8 semesters or less. Each plan includes all required courses, including Foundations and major as well as emphasis, minor or clusters (if applicable). The plan may also include elective courses to meet the credit requirement.
- Please note the following terms: Groups = A term used on the Degree Audit to reference a required group of classes that may be pre-selected or from which you can choose; General Elective = any course offering at BYU-Idaho which you are eligible to take; Major Elective = a required course from a list of multiple course options within your major. (A certain number of “major electives” may be required for your major, but you can select which course to choose from the given list.)

| Semester 1           | Credits   | Semester 2           | Credits   | Semester 3           | Credits   | Semester 4                 | Credits      |
|----------------------|-----------|----------------------|-----------|----------------------|-----------|----------------------------|--------------|
| CS 124               | 3         | CS 165               | 3         | CS 235               | 3         | CS 238                     | 3            |
| * FDMAT 112          | 4         | MATH 341             | 3         | CS 213               | 3         | CS 246                     | 3            |
| ** FDSCI 101         | 2         | FDAMF 101            | 3         | CS 237               | 3         | ECEN 324                   | 3            |
| FDENG 101            | 3         | FDENG 201            | 3         | ECEN 160             | 3         | ### Science / MathElective | 3-4          |
| FDREL 121 or 122     | 2         | FDREL 121 or 122     | 2         | # Science Elective   | 4         | FDREL 200                  | 2            |
|                      |           |                      |           |                      |           |                            |              |
|                      |           |                      |           |                      |           |                            |              |
|                      |           |                      |           |                      |           |                            |              |
| <b>Total Credits</b> | <b>14</b> | <b>Total Credits</b> | <b>14</b> | <b>Total Credits</b> | <b>16</b> | <b>Total Credits</b>       | <b>14-15</b> |

| Semester 5 (Winter)     | Credits   | Semester 6 (Spring)     | Credits      | Off-Track (Fall)     | Credits  | Semester 7 (Winter)     | Credits      |
|-------------------------|-----------|-------------------------|--------------|----------------------|----------|-------------------------|--------------|
| CS 308                  | 2         | CS 345                  | 3            | # CS 398 or 498R     | 1        | CS 470                  | 3            |
| CS 306                  | 3         | CS 364                  | 4            |                      |          | CS 499                  | 3            |
| ## Supplemental Courses | 3         | ## Supplemental Courses | 3            |                      |          | ## Supplemental Courses | 3            |
| ## Supplemental Courses | 3         | *** Cultural Awareness  | 2-3          |                      |          | *** Cultural Awareness  | 2-3          |
| MATH 330                | 3         | * Take one:             | 1-3          |                      |          | FDSCI Issues            | 3            |
| FDREL Scripture-based   | 2         | FDMAT 108 (3 cr)        |              |                      |          | FDREL Elective          | 2            |
|                         |           | FDMAT 108T (1 cr)       |              |                      |          |                         |              |
|                         |           | FDREL Scripture-based   | 2            |                      |          |                         |              |
|                         |           |                         |              |                      |          |                         |              |
| <b>Total Credits</b>    | <b>16</b> | <b>Total Credits</b>    | <b>15-18</b> | <b>Total Credits</b> | <b>1</b> | <b>Total Credits</b>    | <b>16-17</b> |

| Semester 8 (Spring)  | Credits   |
|----------------------|-----------|
| CS 416               | 2         |
| CS 432               | 3         |
| Elective             | 3         |
| FDSCI Issues         | 2         |
| FDCNC 350            | 2         |
| FDREL Elective       | 2         |
|                      |           |
|                      |           |
| <b>Total Credits</b> | <b>14</b> |

**Special Instructions**

- ~ Computer Science is a Specialized major; no minor or clusters are allowed.
- ~ Most students will want to change track to Winter/Spring after successfully completing 60 credits.
- \* Students will need to either take FDMAT 108-Mathematical Tools for the Real World (3 cr) or FDMAT 108T-Math for the Real World Test (1 cr) to complete the Quantitative Reasoning Requirement for Foundations. The prerequisite for FDMAT 108T will be the successful completion of any FDMAT course. The Computer Science department recommends that students majoring in CS choose FDMAT 112-Calculus as the prerequisite (FDMAT 112 is a prerequisite for Math 113) and take FDMAT 108T. Please see the Math homepage for more information on the Quantitative Reasoning requirement (<http://www.byui.edu/mathematics/fdmat108/fdmat108t-%28test-out%29>)
- \*\* Students are recommended to complete OPTION A under the Foundations Science Requirements.
- \*\*\* Complete FDCA 201-206 if FDCA 101 was previously taken; complete FDWLD 201 if FDWLD 101 was taken.
- # CS 398 or CS 498R- Internship can be taken for 1 - 4 credits. It is recommended it be taken during your off-track semester before your senior year.
- ## Supplemental Courses - Take 15 credits from the following courses: ECEN 460 (3 cr); CS 313 (3 cr); CS 356 (1 cr); CS 371 (3 cr); CS 460 (3 cr); CS 480 (3 cr); CS 490 (3 cr); CS 499S (1-2 cr).
- ### May choose any two courses among the science courses list, there is no need for the two courses to be within one subject.