

| | Minimum Hrs Required | Course(s) Fulfilled |
|--|-------------------------|---|
| REQUIRED COURSEWORK: 18HRS TOTAL | | |
| Two Core Courses: | 6 | |
| C S 303E: Elements of Computer Programming | | |
| C S 313E: Elements of Software Design | | |
| Four of the Following Upper Division Courses: | 12 | |
| C S 320N: Topics in Computer Science for Non-majors | | <p><i>*Multiple topics of C S 320N, 328E or 329E may count toward the 12 additional hour requirement as long as topics vary</i></p> <p><i>*With the approval of the certificate program faculty committee, other appropriate upper division courses may be counted toward the elective requirement.</i></p> <p><i>*Please visit our website for a list of pre-approved substitute courses: http://www.cs.utexas.edu/undergraduate-program/academics/elements-computing</i></p> <p><i>*No more than 2 substitutions are allowed to count toward the 18hr Elements of Computing Certificate</i></p> |
| C S 324E: Elements of Graphics and Visualization | | |
| C S 326E: Elements of Networking | | |
| C S 327E: Elements of Databases | | |
| C S 328E: Topics of Elements of Computing | | |
| C S 329E: Advanced Topics in Elements of Computing | | |

POLICIES & PROCEDURES

- Application for admission required
- Total of 18 hours required; 12 of which must be upper division
- Students may only register for up to 3 upper division C S Elements courses in a given semester
- All coursework must be completed with a grade of C- or higher
- Students must apply for certification, by the stated deadline, upon completion of the certificate requirements. (Fall: Dec 1st; Spring: May 1st; Summer: Aug 1st)
- Please visit the certificate website for additional information: <http://www.cs.utexas.edu/undergraduate-program/academics/elements-computing>