GWT Satisfied Yes No

| Required Core Courses |  | Units |  |
| :--- | :---: | :---: | :---: |
| Course | CS 130 | 4 |  |
| Discrete Structures | CS 140 | 4 |  |
| Introduction to Computer Science | CS 141 | 4 |  |
| Intro to Prog and Prob Solv | CS 210 | 4 |  |
| Computer Logic | CS 240 | 4 |  |
| Data Struc and Algorithms I | CS 241 | 4 |  |
| Data Struc and Algorithms II | CS 256 | 4 |  |
| C++ Programming | CS 264 | 4 |  |
| Computer Organization and Assembly Prog | CS 311 | 4 |  |
| Language Translation and Automata | CS 331 | 4 |  |
| Design and Analysis of Algorithms | CS 365 | 4 |  |
| Computer Architecture | CS 408 | 4 |  |
| Programming Languages | CS 431 | 4 |  |
| Operating Systems | CS 463 | 2 |  |
| Undergraduate Seminar | CS 480 | 4 |  |
| Software Engineering | Total Units | 58 |  |
|  |  |  |  |


| Elective Core Courses |  |  |
| :---: | :---: | :---: |
| Course |  | Units |
| At least 20 units from: |  |  |
| Programming Graphical User Interfaces | CS 245 | (4) |
| Unix and Scripting | CS 260 | (4) |
| Numerical Methods | CS 301 | (4) |
| Symbolic Programming | CS 352 | (4) |
| Object-Oriented Design \& Programming | CS 356 | (4) |
| Parallel Processing | CS 370 | (4) |
| Computer Networks | CS 380 | (4) |
| Compilers and Interpreters | CS 411 | (4) |
| Artificial Intelligence | CS 420 | (4) |
| Database Systems | CS 435 | (4) |
| Computer Graphics | CS 445 | (4) |
| Computability | CS 450 | (4) |
| Secure Communication | CS 460 | (4) |
| Game Development | CS 470 | (4) |
| Software Engineering Practice | CS 481 | (4) |
| Honors | CS 490 | (4) |
| Special Topics for Upper Division Studnets | CS 499 | (1-4) |
| No more than 8 units from: |  |  |
| CS 299, CS 400, CS 461, CS 462, EGR 461, EGR 462, EGR 463, MAT 216, MAT 370, MAT 380, MAT 381, MAT 402, MAT 470, MAT 480, MAT 485, MAT 486, SCI 470, SCI 471, SCI 472, SCI 473. |  |  |
|  | Total Units | 27 |


| Required Support Courses |  |  |  |
| :--- | ---: | :---: | :---: |
| Course |  | Units |  |
| Life Science (B2, B3) | BIO 110/111L | $3 / 1$ |  |
| Computers and Society (B5) | CS 375 | 4 |  |
| Anal Geom \& Calculus I (B4) | MAT 114 | 4 |  |
| Anal Geom \& Calculus II | MAT 115 | 4 |  |
| Anal Geom \& Calculus III | MAT 116 | 4 |  |
| Linear Algebra | MAT 208 | 4 |  |
| Calculus Sev Variables | MAT 214 | 3 |  |
| General Physics (B1, B3) | PHY 131/131L | $3 / 1$ |  |
| General Physics | PHY 132/132L | $3 / 1$ |  |
| General Physics | PHY 133/133L | $3 / 1$ |  |
| Stat Meth for Comp Scientists | STA 326 | 4 |  |
|  |  |  |  |
|  |  |  |  |


| General Education Requirements |  |
| :---: | :---: |
| Area | Units |
| Area A Communication \& Critical Thinking | 12 |
| 1 Oral Communication |  |
| 2 Written Communication |  |
| 3 Critical Thinking |  |
| Area B Mathematics \& Natural Sciences | 16 |
| Select at least one lab course from sub-area 1 or 2. |  |
| 1 Physical Science |  |
| 2 Biological Science |  |
| 3 Laboratory Activity |  |
| 4 Math/Quantitative Reasoning |  |
| 5 Science \& Technology Synthesis |  |
| Area C Humanities | 16 |
| 1 Visual and Performing Arts |  |
| 2 Philosophy and Civilization |  |
| 3 Literature and Foreign Language |  |
| 4 Humanities Synthesis |  |
| Area D Social Sciences | 20 |
| 1 U.S. History, Constitution, American Ideals |  |
| 2 History, Economics and Political Science |  |
| 3 Sociology, Anthropology, Ethnic \& Gender Studies |  |
| 4 Social Science Synthesis |  |
| Area E Lifelong Understanding \& Self Development | 4 |
| Total Units | 68 |


| American Institutions <br> Courses that satisfy this requirement may also satisfy G.E. Area <br> D1 | 8 |
| :--- | :--- |

## American Cultural Perspectives Requirement

Refer to catalog for list of courses that satisfy this requirement Course may also satisfy major, minor, GE, or unrestricted elective requirements

The following required support courses should be taken to satisfy the
indicated GE Requirements to achieve the minimum units to degree listed at the top of this sheet

| Course |  | GE Area |
| :--- | ---: | :---: |
| General Physics | PHY 131/131L | B1, B3 |
| Life Science | BIO 110/111L | B2, B3 |
| Anal Geom \& Calculus I | MAT 114 | B4 |
| Computers and Society | CS 375 | B5 |

The remaining GE requirements may be satisfied by any course approved for that area.

No more than 105 community college quarter units or 36 extension credit quarter units may be applied toward a Bachelor's degree.
A minimum 2.0 cumulative GPA is required in core (including option) courses, Cal Poly Pomona courses, and overall work completed in order to receive a degree in this major.

