

# BS/MS in Computer Science 5-Year Integrated Program

## 2016 - 2018 Catalog

### Core Curriculum Requirements\* (27 hrs)

- UGS 302 or 303 First-Year Signature Course
- RHE 306 Rhetoric & Composition
- E 316P/N/M/L/K Literature
- American History 1
- American History 2
- American Government
- Government 2
- Social & Behavioral Science
- Visual & Performing Arts
- Mathematics (fulfilled by M 408N/C)
- Science Sequence, 6 hrs (fulfilled by degree requirements)
- Science, 3 additional hours (fulfilled by C S 312)
- Writing flag (from course not fulfilling core curriculum)

\*Courses that fulfill above core curriculum requirements are designated in course schedule.

### Foreign Language or Culture Requirement (minimum 6 hrs)

- 3-6 hrs foreign language or approved culture course
- 3-6 hrs foreign language or approved culture course

### Course Flag Requirements

- Upper division writing flag (WR)
- Additional writing flag (WR) \*1 WR flag must not overlap with core
- Independent Inquiry flag (II) (fulfilled by C S 439, beg. Spring '18)
- Quantitative Reasoning flag (QR) (fulfilled by CS 314)
- Cultural Diversity flag (CD)
- Global Cultures flag (GC)
- Ethics & Leadership flag (EL)

AP Exam	Credit
Language, score of 3-5	RHE 306
Literature, 4-5	E 316P
US History, 3-5	HIS 315L (American History 2)
American Government, 3-5	GOV 310L (American Government)
Psychology, Human Geography or Macro/Microeconomics, 3-5	Social & Behavioral Science
Music Theory or Art History, 3-5	Visual and Performing Arts
Computer Science A, 4-5	C S 312
Chemistry, 4-5	Chemistry 301 & 302
Biology, 5	Biology 311C & 311D
Physics C: Mechanics, 3-5	Physics 303K & 103M or 301 & 101L
Physics C: E & M, 3-5	Physics 303L & 103N or 316 & 116L
Calculus, AB or BC	Varies

### Computer Science Requirements (38 hrs)

- C S 312 Intro to Programming
- C S 311 Discrete Math
- C S 314 Data Structures
- C S 429 Computer Architecture
- C S 439 Operating Systems
- C S 331 Algorithms
- C S Upper Division Elective (UDE) #1
- C S UDE #2
- C S UDE #3
- C S UDE #4
- C S UDE #5
- C S UDE #6

### Lower Division Mathematics Requirements (8-12 hrs)

- M 408N Traditional Calculus 1 +
- M 408S Traditional Calculus 2 +
- M 408M Traditional Calculus 3 +
- OR**
- M 408C Accelerated Calculus 1 +
- M 408D Accelerated Calculus 2

### Science & Upper Division Math Requirements (15-18 hrs)

- SDS 321 Statistics & Probability or M 362K Probability 1
- M 340L Matrices or SDS 329C Practical Linear Algebra
- Science Sequence (must complete 1 approved, full sequence)
  - Chemistry 301 + 302 or
  - Biology 311C + 311D or
  - Physics 303K + 103M + 303L + 103N or
  - Physics 301 + 101L + 316 + 116L
- 3-4 additional hours science, geology, or upper division math
  - Chemistry 301, Biology 311C, Physics 303K + 103M, Physics 301 + 101L, Geology 401, or any upper division math course except M 340L, M 341, M 362K, M 325K

### General Electives\* (7-20 hrs)

120 hours total \*Physical activity courses (PED or KIN) and non-majors science courses will not toward the required 120 hours. Only 6 hours of pass/fail coursework will count toward the required 120 hours.

**Computer Science Advising**  
**GDC 2.702**  
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# BS/MS in Computer Science 5-Year Integrated Program

## Application Requirements

- Apply in spring of junior year. Applications are due by May 1st.
- Must be pursuing BS in Computer Science
- Minimum 3.0 Overall UT GPA (Required)
- Minimum 3.5 CS GPA
- 12hrs or less heading into fall semester of senior year
- Completion of all C S core courses BEFORE entering stage one (C S 312, 311, 314, 429, 439, 331)

## Application Checklist (All Due by May 1<sup>st</sup>)

- 5-Year Integrated Program Application: Found on the Computer Science website under 5-Year tab/Info – Apply directly to the program of interest. All three possible. Upload as single PDF.
- Statement of Purpose
- Three Letters of Recommendation
- Resume (optional)
- List of Publications (optional)

## Rules and Requirements (Stage I / 4<sup>th</sup> Year)

- 15hrs max per semester when taking graduate courses
- Take a minimum of 12hrs of graduate coursework (6hrs in fall and 6hrs in spring) along with remaining undergraduate coursework
- GRE required – complete by April 1
- Apply to the Graduate School by May 15
- Maintain a 3.0 GPA in C S undergraduate/graduate coursework AND NO grade below a “B-” in a C S graduate course
- No course can count towards both undergraduate and graduate credit
- Only 12 hrs of graduate credit can be reserved as an undergraduate
- **All undergraduate coursework MUST be completed by the end of the summer prior to beginning stage 2 of the program. NO EXCEPTIONS.**

## Rules and Requirements (Stage II / 5<sup>th</sup> Year)

- 30hrs total (12hrs taken in Stage 1)
- 9hrs of Diversity Coursework (1 Course From Each Area: Theory, Systems, Applications)
- 15hrs of Computer Science Coursework in Area of Interest
- 6hrs of Minor Coursework Outside of C S (approved by Graduate Advisor)
- Must maintain at least a 3.0 GPA in all graduate coursework to obtain degree

For more information please contact your C S advisor, or you can email your inquires to [fiveyear@cs.utexas.edu](mailto:fiveyear@cs.utexas.edu).